

O. C. 526

THE UNIVERSITY OF TEXAS SYSTEM
Office of the Chancellor

September 28, 1972

TO THE HONORABLE BOARD OF REGENTS
OF THE UNIVERSITY OF TEXAS SYSTEM

Mrs. Johnson and Gentlemen:

The dockets prepared by the component institutions listed below are herewith submitted with my recommendation for ratification or approval, as appropriate, at the meeting of the Board of Regents on October 20, 1972. The budget changes included in these dockets have been approved by me and are herewith submitted as a report to the Board of Regents.

The University of Texas at Austin
The University of Texas at El Paso
The University of Texas at Arlington
The University of Texas at Dallas
The University of Texas Southwestern Medical School at Dallas
The University of Texas at San Antonio
The University of Texas Medical School at San Antonio
The University of Texas Dental School at San Antonio
The University of Texas Medical Branch at Galveston
The University of Texas Medical School at Houston
The University of Texas Dental Branch at Houston
The University of Texas M. D. Anderson Hospital and Tumor Institute at Houston
The University of Texas Graduate School of Biomedical Sciences at Houston
The University of Texas School of Public Health at Houston
The University of Texas Nursing School (System-wide)

Listed below are U. T. System and Institutional items which I recommend for the Board's ratification or approval, as appropriate, including my report of budget changes.

D & F

GIFT TO THE UNIVERSITY OF TEXAS INSTITUTE OF TEXAN CULTURES

The following gift has been received. I recommend acceptance by the Board of Regents:

<u>Donor</u>	<u>Purpose and Condition</u>	<u>Amount</u>
1. Minnie Stevens Piper Foundation Mr. William C. Wiederhold, Executive Director 201 North St. Mary's Street San Antonio, Texas 78205	For continuing research on the Negro in Spanish Texas	\$6,000



Chancellor's Docket No. 59
 THE UNIVERSITY OF TEXAS SYSTEM
 Office of the Chancellor

September 28, 1972

TO THE HONORABLE BOARD OF REGENTS
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400

CONTRACTS AND AGREEMENTS

1. Interagency Cooperation Contract IAC(72-73)-688 between the Texas State Department of Health and The University of Texas System - Regional Medical Program of Texas in which the Texas State Department of Health agrees to develop and operate an Area Health Resource Information Center to serve the 36 counties comprising Public Health Region 7 with related responsibilities of collecting, cataloging, and dispensing information on health care resources and services. The amount of this contract is not to exceed \$8,855 for the period September 1, 1972 through December 31, 1972.
2. Amendment No. 1 to Interagency Contract IAC(72-73)-449 between the Office of the Governor - Office of Information Services and The University of Texas System (Item No. 1, page C-1, June 9, 1972 docket) which extends the contract period from August 31, 1972 to December 31, 1972, and revises the total amount from \$10,500 to \$7,000. The beginning date of the contract was February 22, 1972.
3. Amendment No. 1 to Interagency Contract IAC(72-73)-503 between the Office of the Governor - Office of Information Services and The University of Texas System - Regional Medical Program of Texas (Item No. 2, page C-2, July 21, 1972 docket), extending the contract period from August 31, 1972 to September 30, 1972. The beginning date of the contract was June 1, 1972, and the amount of the contract (\$5,000) is unchanged.

400

REPORT OF AMENDMENTS TO THE 1971-72 SYSTEM ADMINISTRATION BUDGET

F Misc.

Office of the Chancellor - Bauer House

1. Transfer \$5,000 from the Classified Personnel Salaries account to the Maintenance, Operation and Equipment account to provide funds for the purchase of some small equipment items. (RBC# D-160)

Available Fund

Recommended Reappropriations and Lapses of Unexpended Available University Fund Appropriations at August 31, 1972

2. All unencumbered balances in the Available University Fund Appropriations ("63" Series of Accounts) as of August 31, 1972 are lapsed to the Available University Fund Unappropriated Balance with the exception of the following listed account balances that are to be reappropriated into 1972-73:

<u>Account Number</u>	<u>Account Title</u>	<u>Amount</u>
63-0500-0100	Unallocated Operating Account	\$ 28,127.17
63-0844-0100	Consultant for Architectural Restoration of System Properties	432.81
63-0845-0100	Legal Expenses and Other Services	1,896.45
63-0846-0100	Space Lease - Commodore Perry Building	1,658.23
63-0846-0200	Temporary Downtown Parking - System Administration	5,432.84
	U. T. System Airplane Operation -	
63-0850-0050	Maintenance, Operation, and Equipment	9,087.58
63-0850-0075	Travel	8,769.45
63-0870-0100	Cooperative Management System Development Project	30,000.00

REPORT OF AMENDMENTS TO THE 1971-72 SYSTEM ADMINISTRATION BUDGET (Continued)Plant Funds - Transfer

3.	<u>Account No.</u>	<u>Amount</u>
From:		
	18-2000-0000	\$ 314,990
	27-2811-0000	3,303,010
	27-2812-0000	1,632,000
		<u>\$ 5,250,000</u>
To:		
	36-9041-2099	\$ 3,618,000
	36-9043-2099	1,632,000
		<u>\$ 5,250,000</u>

To transfer to Unexpended Plant Funds (for further appropriation for plant expansion) a portion of the excess pledged revenue balances at 8-31-72, as authorized by the provisions of the bond resolutions for

- (1) Building Revenue Bonds, Series 1969, Section 7.04(c), and
- (2) Combined Fee Revenue Bonds, Series 1970 and Series 1971, Section 16(b).
(RBC# D-162)

The University of Texas Institute of Texan Cultures at San Antonio

4. Transfer \$2,806 from the Miscellaneous Income account to the Institutional Unallocated Account. Since the Miscellaneous Income funds were largely derived from the sale of photographs, photocopies, and similar items, this transfer will reimburse the Institute for expenses connected with producing the items sold. (RBC# TC-185)

The University of Texas of the Permian Basin

5. Appoint Kevin-John H. McIntyre as Assistant to the President at an annual salary rate of \$13,500 effective August 26, 1972. (RBC# PB-292)
6. Appoint Jose I. Garcia as Associate Director of Learning Resources Center for Computer Services at an annual salary rate of \$17,000 effective August 21, 1972. (RBC# PB-282)
7. Appoint Milton D. Vaughn as Assistant Dean of Management and Associate Professor of Economics at an annual salary rate of \$19,000 effective August 17, 1972. (RBC# PB-283) (Non-tenure)
8. Appoint David W. Sloan as Associate Professor and Chairman of Music at an academic rate of \$14,500 effective August 17, 1972. (RBC# PB-291) (Non-tenure)
9. Appoint Richard A. Jenson as Assistant Director for Library Distribution Services at an annual salary rate of \$13,500 effective August 18, 1972. (RBC# PB-286)

Sincerely,

Charles A. LeMaistre/a.

Charles A. LeMaistre, M.D.
Chancellor

CAL:do

THE UNIVERSITY OF TEXAS AT AUSTIN

INDEX

October 20, 1972

Meeting

Budget	M-22
Contracts	
Academic and Business	M-11
Research	M-1
Gifts	M-18
Graduate Faculty Membership	M-17
Travel for Faculty and Staff	M-15
Use of Faculty Authored Textbooks	M-16

The UNIVERSITY of TEXAS at AUSTIN

Office of the President

September 22, 1972

Chancellor Charles A. LeMaistre
The University of Texas System
Austin, Texas 78712

Dear Chancellor LeMaistre:

The following docket for The University of Texas at Austin is submitted for your approval and submission to the Board of Regents at its meeting in Austin on October 20, 1972.

RESEARCH AND OTHER ACADEMIC CONTRACTS: The following contracts, grants and amendments have been signed by the appropriate official upon recommendation of the respective technical directors, fiscal officers, and the Office of Sponsored Projects.

Expenditures from these contracts and grants will be made in accordance with regular University operating procedures and contractual limitations. Personnel appointments and changes will be in accordance with University salary rates and approvals. Travel and purchasing will conform to established procedures.

I recommend your approval and ratification of signatures.

The UNIVERSITY of TEXAS at AUSTIN
 October 20, 1972

FEDERAL GRANTS and CONTRACTS:

1. Modification AFOSR 69-1812D to Grant AFOSR 69-1812, by which the United States Air Force, Air Force Office of Scientific Research, Arlington, Virginia, provides \$20, 261 additional funds (Travis County) and extends the grant for the period September 1, 1972 through August 31, 1973. The research entitled, "Spline Functions and Approximation Theory," continues under the direction of Dr. Larry L. Schumaker, Associate Professor of Mathematics.
2. Modification AFOSR-72-2199B to Grant AFOSR-72-2199, by which the United States Air Force, Air Force Office of Scientific Research, Arlington, Virginia, provides \$30, 366 additional funds (Travis County) and extends the grant for the period October 1, 1972 through September 30, 1973. The research entitled, "Magnetic and Electrical Properties of Novel Compounds in Alkaline-Earth-Transition Metal-Sulfur and Selenium Systems," continues under the direction of Dr. Hugo Steinfink, Professor of Chemical Engineering.
3. Modification P00007, Change Order to Contract F33615-71-C-1350, by which the United States Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, provides \$200, 786 to complete funding of the total estimated cost of \$640, 373 for the period through March 31, 1973, which currently is the expiration date of the contract. The advanced avionics and analysis and evaluation program continues in Applied Research Laboratories under the direction of Dr. Chester M. McKinney, Jr., Director. (Travis County)
4. Modification P00006, Supplemental Agreement to Contract F44620-71-C-0091, by which the United States Air Force, Air Force Office of Scientific Research, Arlington, Virginia, funds the remaining \$200, 000 for the period through March 31, 1973, which currently is the expiration date of the contract. The research entitled, "Basic Research in Electronics (JSEP)," continues under the direction of Dr. Arwin A. Dougal, Professor of Electrical Engineering. (Travis County)
5. Modification P00001, Supplemental Agreement to Contract F44620-71-C-0119, by which the United States Air Force, Air Force Office of Scientific Research, Arlington, Virginia, provides \$152, 903 additional funds (Travis County) and extends the contract for the period September 1, 1972 through August 31, 1973. The research entitled, "Prediction of Properties and Behavior of Materials," continues under the direction of Dr. Michael J. S. Dewar, Professor of Chemistry.
6. Modification P00001, Change Order to Contract F41609-72-C-0047, by which the United States Air Force, Air Force Systems Command, Aerospace Medical Division, Brooks Air Force Base, Texas, provides \$25, 497 to complete the funding of the \$28, 497 (Travis County) allotted under the contract effective for the period June 26, 1972 through December 12, 1972. The research entitled, "Electrophysiological Assessment of Visual Defects in Trained Primates," continues under the direction of Dr. Ashley J. Welch, Associate Professor of Electrical Engineering.
7. Modification P00001 to Contract N00126-72-C-1748, by which the Department of the Navy, Navy Electronics Supply Office, Great Lakes, Illinois, corrects the "Accounting and Appropriation Data." The research continues in Applied Research Laboratories under the direction of Dr. Chester M. McKinney, Jr., Director.

8. Modification P00002 to Contract N00126-72-C-1748, by which the Department of the Navy, Navy Electronics Supply Office, Great Lakes, Illinois, cancels Modification P00001 and further corrects certain accounting and appropriation data. The research continues in Applied Research Laboratories under the direction of Dr. Chester M. McKinney, Jr., Director.
9. Modification P00009 to Contract N60921-71-C-0227, by which the Department of the Navy, U. S. Naval Ordnance Laboratory, White Oak, Silver Spring, Maryland, adds to the Government Furnished Materials clause without otherwise changing the contract. The research and development on acoustic mine mechanisms continues in Applied Research Laboratories under the direction of Dr. Chester M. McKinney, Jr., Director.
10. Grant DA-ARO-D-31-124-73-G34, by which the Department of the Army, U. S. Army Research Office-Durham, Durham, North Carolina, provides \$72,129 (Travis County) for support of research entitled, "Electrogenerated Chemiluminescence." The grant is effective for the period September 1, 1972, through August 31, 1975, with only \$25,060 currently being funded for the period through August 31, 1973. The research will be under the direction of Dr. Allen J. Bard, Professor of Chemistry.
11. Modification P-310, Change Order to Contract DADA17-69-C-9067, by which the Department of the Army, U. S. Army Medical Research and Development Command, Washington, D. C., increases contract funds by \$2,013 (Travis County) to cover overhead adjustment for the period January 1, 1971, through December 31, 1972. The research entitled, "Studies on Prophylactic and Curative Treatment of Malaria," continues under the direction of Dr. Karl Folkers, Director, Institute of Biomedical Research.
12. Modification P00002, Supplemental Agreement to Contract DAAG17-70-C-0127, by which the Department of the Army, U. S. Army Natick Laboratories, Natick, Massachusetts, makes certain changes in the technical data requirements and extends the contract for the period July 1, 1972 through August 31, 1972. The research entitled, "The Effect of Impulsive Loadings on Airdrop Structures," continues under the direction of Dr. E. A. Ripperger, Professor of Aerospace Engineering and Engineering Mechanics.
13. Contract DADA17-72-C-2154, by which the Department of the Army, U. S. Army Medical Research and Development Command, Washington, D. C., provides \$39,656 (Travis County) for support of research entitled, "Application of Oxygen to Treat Waste from Military Field Installations." The contract is effective for the period July 1, 1972 through June 30, 1973, and the research will be under the direction of Dr. Joseph Malina, Professor of Civil Engineering.
14. Contract DAAD05-73-C-0024, by which the Department of the Army, Aberdeen Proving Ground, Maryland, provides \$7,500 (Travis County) for support of research entitled, "Response of Beams, Plates and Shells to Impact Loading." The contract is effective for the period August 21, 1972 through August 20, 1973, and the research will be under the direction of Dr. Harry H. Calvit, Associate Professor of Aerospace Engineering and Engineering Mechanics.
15. Letter dated July 28, 1972, by which the U. S. Department of Justice, Law Enforcement Assistance Administration, Regional Office, Dallas, Texas, allocates funds in the amount of \$35,000 (Travis County) to The University of Texas at Austin for support of the Law Enforcement Education Program (LEEP) No. 03658 for the fiscal year July 1, 1972 through June 30, 1973. The program for student support, loans and scholarships continues under the direction of Mr. Edward L. Carpenter, Director of Student Financial Aids.

16. Modification No. 6, Supplemental Agreement to Contract No. 81-46-70-24, by which the U. S. Department of Labor, Manpower Administration, Washington, D. C., adds \$35,000 additional funds (Travis County) for a new total estimated cost of \$178,188 for the period of the contract effective June 15, 1970 through September 30, 1973. The research entitled, "Negro Employment in the South: Minority Construction Contractors," continues and its purpose is to study the economic condition of minority contractors in the construction industry. Performance is under the direction of Dr. F. Ray Marshall, Professor of Economics.
17. Modification No. 4, Supplemental Agreement to Contract No. 82-48-71-38, by which the U. S. Department of Labor, Manpower Administration, Washington, D. C., increases contract funds by \$6,500 (State of Georgia) for the period June 21, 1971, through February 20, 1973. The pilot project to overcome barriers to employment of minority women in white collar jobs, with its purpose being to test the usefulness of the outreach concept to get black women into professional and managerial positions presently not occupied, continues under the direction of Dr. F. Ray Marshall, Professor of Economics.
18. Grant SBA-406-72-GR-45, by which the United States Small Business Administration, Washington, D. C., provides \$38,940 (Travis County) for support of a project entitled, "On-Call Business Management Consulting Service," with its purpose to assist the SBA Dallas Regional and San Antonio District Offices in applying a full range of professional consultant services to SBA loan-8(a) contract portfolio using qualified business - students, business professors and private consultants. The grant is effective for the period July 1, 1972 through June 30, 1973, and the project will be under the direction of Seymour Schwartz, Assistant to the Dean, College of Business Administration.
19. Amendment No. 2 to Grant SFG-0-5266, by which the Smithsonian Institution, Washington, D. C., authorizes the transfer of certain items of equipment from Grant SFG-0-5266 (expired) to Grant SFG-2-7624. The research entitled, "Archeological Excavations at Stobi," is under the direction of Dr. James R. Wiseman, Professor of Classics.
20. Amendment No. 2 to Grant SFG-2-7624, by which the Smithsonian Institution, Washington, D. C., authorizes the transfer of certain items of equipment from expired Grant SFG-0-5266 to Grant SFG-2-7624, which is currently effective April 1, 1972 through March 31, 1973. The archeological excavations at Stobi continue under the direction of Dr. James R. Wiseman, Professor of Classics.
21. Grant OEG-0-72-4875, by which the Department of Health, Education, and Welfare, Office of Education, Washington, D. C., provides \$18,300 (Travis County) for support of a program entitled, "Multidisciplinary Graduate Program for Preparation of Educational Research Specialists." The grant is effective for the period June 19, 1972 through September 19, 1973, and the program will be under the direction of Dr. Jackson B. Reid, Professor of Educational Psychology.
22. Training Grant No. 44-P-30067/6-08, by which the Department of Health, Education, and Welfare, Social and Rehabilitation Service, Rehabilitation Services Administration, Washington, D. C., provides \$119,699 (Travis County) for support of a continuing rehabilitation counselor training program (No. 44-P-30067/6-07). The new grant is effective for the period September 1, 1972 through August 31, 1973 and the program continues under the direction of Dr. Giles D. Carnes, Associate Professor of Special Education.

23. Grant AI09994-03, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$22,133 (Travis County) for support of research entitled, "Association of DNA with Membrane in Infected Cells." The grant is effective for the period September 1, 1972 through August 31, 1973, and the research continues under the direction of Dr. Charles F. Earhart, Assistant Professor of Microbiology.
24. Grant ES00537-03, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$16,157 (Travis County) for support of research entitled, "Enzymatic Oxygen Fixation into Aromatic Hydrocarbons." The grant is effective for the period September 1, 1972 through August 31, 1973, and the research will be under the direction of Dr. David T. Gibson, Associate Professor of Microbiology.
25. Grant GM06590-14, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$69,444 (Travis County) for support of research entitled, "Biochemistry of A-Keto Acid Dehydrogenases Complexes." The grant is effective for the period August 1, 1972 through July 31, 1975, and the \$69,444 now appropriated is for the period August 1, 1972 through July 31, 1973. The research continues under the direction of Dr. Lester J. Reed, Professor of Chemistry.
26. Grant GM11300-10, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$34,215 (Travis County) for support of research entitled, "Metabolic Controls in Algae." The grant is effective for the period September 1, 1972 through August 31, 1973, and the research continues under the direction of Dr. Jack E. Myers, Professor of Botany and Zoology.
27. Grant GM16889-04, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$50,527 (Travis County) for support of research entitled, "Structural Studies of Biological Complexes." The grant is effective for the period September 1, 1972 through August 31, 1975, and the \$50,527 now appropriated is for the period September 1, 1972 through August 31, 1973. The research continues under the direction of Dr. David J. DeRosier, Assistant Professor of Chemistry.
28. Grant GM19582-01, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$3,746 (Travis County) for support of research entitled, "Chromosome Structure and Meiotic Mechanisms." The grant is effective for the period September 1, 1972 through August 31, 1975, and the \$3,746 now appropriated is for the period September 1, 1972 through August 31, 1973. The research continues under the direction of Dr. Marjorie P. Maguire, Research Scientist, Genetics Foundation.
29. Grant GM19616-01, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$40,000 (Travis County) for support of research entitled, "DNA and Karyotypic Studies of Drosophila Genomes." The grant is effective for the period September 1, 1972 through August 31, 1977, and the \$40,000 now appropriated is for the period September 1, 1972 through August 31, 1973. The research will be under the direction of Dr. Richard H. Richardson, Associate Professor of Zoology.
30. Grant GM19770-01, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$47,026 (Travis County) for support of research entitled, "Prezygotic Selection in Human Population." The grant is effective for the period September 1, 1972 through August 31, 1973, and the research will be under the direction of Dr. Yuichiro Hiraizumi, Professor of Zoology.

31. Grant HL13882-02, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$22,050 (Travis County) for support of research entitled, "Structure and Properties of Hemoglobins." The grant is effective for the period September 1, 1972 through August 31, 1974, and the \$22,050 now appropriated is for the period September 1, 1972 through August 31, 1973. The research continues under the direction of Dr. G. Barrie Kitto, Associate Professor of Chemistry.
32. Grant K06 CA18366-11, Career Award-Research Career Program, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$27,673 (Travis County) for support of research entitled, "Chromosomes and Mitosis in Health and Disease." The grant is effective for the period September 1, 1972 through August 31, 1973, and the research will be under the direction of Dr. John J. Biesele, Professor of Zoology, and Dr. H. Eldon Sutton, Professor of Zoology.
33. Grant K06 GM18373-11, Career Award-Research Career Program, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$27,764 (Travis County) for support of research entitled, "Physiology and Biochemistry of Algae." The grant is effective for the period September 1, 1972 through August 31, 1973, and the research will be under the direction of Dr. H. Eldon Sutton, Professor of Zoology, and Dr. Jack E. Myers, Professor of Botany and of Zoology.
34. Grant K06 GM18383-11, Career Award-Research Career Program, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$27,764 (Travis County) for support of research entitled, "Genetic Control of Cell Organization." The grant is effective for the period September 1, 1972 through August 31, 1973, and the research will be under the direction of Dr. Robert P. Wagner, Professor of Zoology, and Dr. H. Eldon Sutton, Professor of Zoology.
35. Grant K03 GM21252-06S1, Development Award-Research Career Program, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$113 for Unemployment Compensation Insurance plus \$9 appropriate indirect costs (Travis County). The research entitled, "Immunochemical Properties of a New Serum Factor," continues under the direction of Dr. L. Joe Berry, Professor of Microbiology, and Dr. William J. Mandy, Associate Professor of Microbiology.
36. Grant NS05423-09, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$22,284 (Travis County) for support of research entitled, "Neural Basis of Behavior." The grant is effective for the period September 1, 1972 through August 31, 1974, and the \$22,284 now appropriated is for the period September 1, 1972 through August 31, 1973. The research continues under the direction of Dr. James L. Larimer, Professor of Zoology.

37. Grant MH19513-02, by which the Department of Health, Education, and Welfare, Public Health Service, Bethesda, Maryland, provides \$25,082 (Travis County) for support of research entitled, "Subvocal Activity During Sleep." The grant is effective for the period August 1, 1972 through July 31, 1973, and the research will be under the direction of Dr. Peter F. MacNeilage, Associate Professor of Linguistics and of Psychology.
38. Amendment No. 3 to Grant GB-7987X, by which the National Science Foundation, Washington, D. C., provides \$13,500 additional funds (Travis County) and extends the grant for the period September 1, 1972 through February 28, 1974. The research entitled, "Taxonomic Studies of Algae," continues under the direction of Dr. Harold C. Bold, Professor of Botany and Education.
39. Amendment No. 2 to Grant GB-14990X, by which the National Science Foundation, Washington, D. C., provides \$34,500 additional funds (Travis County) for support of research entitled, "Development and Transfer of Persistence Effects," and extends the grant for the period September 1, 1972, through February 28, 1974. The research continues under the direction of Dr. Abram Amsel, Professor of Psychology.
40. Amendment No. 1 to Grant GB-29576X, by which the National Science Foundation, Washington, D. C., provides \$37,000 additional funds (Travis County) and extends the grant for the period September 1, 1972 through February 28, 1974. The research entitled, "Biochemical Systematics Emphasizing Higher Plants," continues under the direction of Dr. Tom J. Mabry, Professor of Botany.
41. Grant GB-35472, by which the National Science Foundation, Washington, D. C., provides \$22,000 (Travis County) for support of research entitled, "Spore Structure and Properties in the Clostridia." The grant is effective for the period September 1, 1972 through February 28, 1975, and the research will be under the direction of Dr. Leonard J. Rode, Jr., Associate Professor of Microbiology.
42. Amendment No. 1 to Grant GJ-1084, by which the National Science Foundation, Washington, D. C., provides \$87,000 (Travis County) additional funds and extends the grant for the period September 2, 1972, through February 28, 1975. The research entitled, "Design and Analysis of Multi-programmed Computer Operating Systems," continues under the direction of Dr. James C. Browne, Professor of Physics and of Computer Sciences.
43. Grant GJ-35109, by which the National Science Foundation, Washington, D. C., provides \$26,300 (Travis County) for support of research entitled, "Discrete Optimization Techniques in Computer System Design." The grant is effective for the period September 1, 1972 through February 28, 1975, and the research will be under the direction of Dr. K. M. Chandy, Assistant Professor of Computer Sciences.
44. Grant GK-35467, by which the National Science Foundation, Washington, D. C., provides \$61,900 (Travis County) for support of research entitled, "Time Dependent Deformation of Embankments on Soft Clays: Numerical Analyses and Comparison with Field Measurements." The grant is effective for the period August 15, 1972 through January 31, 1975, and the research will be under the direction of Dr. Roy E. Olson, Professor of Civil Engineering, and Dr. Robert S. Dunham, Assistant Professor of Civil Engineering.

45. Amendment No. 3 to Grant GP-13373X, by which the National Science Foundation, Washington, D. C., provides \$32,100 additional funds (Travis County) and extends the grant for the period September 1, 1972 through February 28, 1974. The research entitled, "Some Aspects of Organometallic Chemistry," continues under the direction of Dr. Rowland Pettit, Professor of Chemistry.

46. Grant GP-35388, by which the National Science Foundation, Washington, D. C., provides \$9,600 (Travis County) for support of a conference on the numerical solution of ordinary differential equations. The grant is effective for the period August 15, 1972 through January 31, 1974, and the conference will be coordinated by Dr. Dale Bettis, Assistant Professor of Aerospace Engineering and Engineering Mechanics.

47. Amendment No. 1 to Grant GS-29190, by which the National Science Foundation, Washington, D. C., provides \$18,100 additional funds (Travis County) and extends the grant for the period September 1, 1972 through February 28, 1974. The research entitled, "A Cohort Analysis of Correlates of Aging," continues under the direction of Dr. Norval D. Glenn, Professor of Sociology.

48. Amendment No. 1 to Grant GY-9411, by which the National Science Foundation, Washington, D. C., provides \$400 additional funds (Travis County) for participation of a scientist in the "1972 Short Course in Vector Space Theory of Matter for College Teachers." (The period of the original grant is October 14, 1971 through September 30, 1972) The Short Course will be under the direction of Dr. Frank A. Matsen, Professor of Chemistry and of Physics.

GRANTS, CONTRACTS and AGREEMENTS (Non-Governmental):

1. Check No. 172, dated August 1, 1972, by which the City of Nacogdoches, Surface Water Reservoir and Improvement Fund, Nacogdoches, Texas, provides \$2,372.58 for assessment of archeological and historical resources of the Bayou Loco reservoir area, Nacogdoches County, Texas, for the period July 1, 1972 through September 30, 1972. The project will be under the direction of David S. Dibble, Acting Director, Texas Archeological Salvage Project.
2. Extension to Grant PRF 3065-C3, 4, by which the American Chemical Society, The Petroleum Research Fund, Washington, D. C., extends the period of the grant through August 31, 1973. The research entitled, "Chemistry of Organometallic Compounds," continues under the direction of Dr. Rowland Pettit, Professor of Chemistry.
3. Purchase Order CC-2, by which the E. I. DuPont de Nemours & Company, Inc., Wilmington, Delaware, provides \$70,000 for support of a program entitled, "Aquatic Survey at La Quinta Channel, Corpus Christi, Texas." The purchase order is effective for the period September 1, 1972 through August 31, 1974, and the program will be under the direction of Dr. Carl H. Oppenheimer, Director, Marine Science Institute, and Dr. William B. Brogden, Research Associate, Marine Science Institute at Port Aransas.
4. Modification No. 22 to Contract No. 952490, by which the Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, provides \$42,104 in funds (against the \$108,328 allocated under Modification No. 21) and increases the total amount of funds to \$228,358 for the period through December 31, 1972. The contract is effective through June 30, 1973, and the Mariner Mars '71 Mission TV Experiment continues under the direction of Dr. G. de Vaucouleurs, Professor of Astronomy.
5. Contract HR 1-15, by which the National Academy of Sciences, Washington, D. C., provides \$149,985 for support of research entitled, "Design of Continuously Reinforced Concrete Pavements for Highways." The contract is effective for the period August 1, 1972 through April 30, 1974, and the research will be under the direction of Dr. W. R. Hudson, Associate Professor of Civil Engineering and Dr. B. F. McCullough, Associate Professor of Civil Engineering.
6. Award Letter dated July 24, 1972, by which the Research Corporation, Burlingame, California, provides \$2,000 for support of research entitled, "Intramolecular Functionalization of Substituted Quinuclidines" and "Synthesis of Physiologically Active Insect Juvenile Hormones and Their Analogues." The grant is effective July 24, 1972, and the research continues under the direction of Dr. Philip L. Stotter, Assistant Professor of Chemistry.
7. Supplemental Agreement No. 1 to Subcontract No. 3696, by which the Union Carbide Corporation, Nuclear Division, Oak Ridge, Tennessee, provides \$23,750 additional funds and extends the subcontract through June 30, 1973. The research entitled, "Analysis of Solutioning of Salt Around Well Boreholes," continues under the direction of Dr. Thomas Dixon, Assistant Professor of Petroleum Engineering.

8. Renewal of Agreement between the World Health Organization, Geneva, Switzerland, and The University of Texas at Austin, by which WHO provides \$2,500 for continuation of an International Reference Centre for Serum Protein Groups in the Department of Zoology. The program continues under the direction of Dr. H. Eldon Sutton, Professor of Zoology.

GRANTS, CONTRACTS and AGREEMENTS (Other): F

1. Memorandum of Agreement for Water Research Project A-022-TEX, by which the Water Resources Institute, Texas Agricultural Experiment Station, Texas A & M University, provides \$29,800 for support of a water research project entitled, "Modeling and Sensitivity Analysis of the Optimal Expansion of Water Resources Systems." The Agreement is effective for the period July 1, 1972 through June 30, 1974, and the research will be under the direction of Dr. David M. Himmelblau, Professor of Chemical Engineering, and Dr. William G. Lesso, Associate Professor of Mechanical Engineering.
2. Grant No. 2-C4-1181, by which the Texas Criminal Justice Council, Office of the Governor, Austin, Texas, provides \$45,021 for support of a project entitled, "Delinquency Rehabilitation and Curriculum Development Project." The grant is effective for the period September 1, 1972 through August 31, 1973, and the project will be under the direction of Dr. Charles W. Laughton, Acting Dean, Graduate School of Social Work.
3. Grant No. 2-E4-1079, by which the Texas Criminal Justice Council, Office of the Governor, Austin, Texas, provides \$68,250 for support of a criminal justice project internship program in the University School of Law. The grant is effective for the period September 1, 1972 through August 31, 1973, and the program will be under the direction of Albert W. Alschuler, Professor of Law.
4. Contract No. 38145, by which the Texas Education Agency, Department of Occupational Education and Technology, Austin, Texas, provides \$7,109 for support of research entitled, "A Comparative Study of the Occupational Achievement of Vocational and Non-vocational High School Graduates in Texas." The contract is effective for the period July 1, 1972 through February 28, 1973, and the research continues under the direction of Dr. John A. Laska, Associate Professor of Cultural Foundations of Education.
5. Contract No. 38144, by which the Texas Education Agency, Department of Education and Technology, Austin, Texas, provides \$8,466 for support of research entitled, "Coping Styles and Achievement." The contract is effective for the period July 1, 1972 through September 30, 1972, and the research continues under the direction of Dr. Robert F. Peck, Professor of Educational Psychology.
6. Contract GU848-4, Agreement between Gulf Universities Research Consortium (GURC), Galveston, Texas, and The University of Texas at Austin, Marine Science Institute, whereby GURC provides \$9,000 for compiling a comprehensive catalog of investigative programs conducted at the Mississippi Test Facility during the Saturn-Apollo static test firing, for the period July 16, 1972 through January 15, 1973. The project will be under the direction of Dr. Carl H. Oppenheimer, Professor of Microbiology, and Director, Marine Science Institute of Port Aransas.
7. Grant No. 12-02-72, by which the Texas Commission on Alcoholism, Austin, Texas, provides \$31,888 for support of a project entitled, "Texas Institute on Alcohol Studies—Pilot Phase." The grant is effective for the period September 1, 1972, through December 31, 1972, and the project will be under the direction of Dr. David A. Sands, Director, Texas Institute of Alcohol Studies, Division of Extension.

ACADEMIC AND BUSINESS CONTRACTS. The following contracts have been executed at The University of Texas at Austin by the official indicated. I recommend approval and ratification of signatures.

1. Contract between The University of Texas at Austin and Blue Bell Creameries, Inc., signed by Vice President James H. Colvin, whereby Blue Bell Creameries, Inc. agrees to furnish ice cream for the residence halls and varsity cafeteria, for the period September 1, 1972 through August 31, 1973, at the per unit prices listed in the contract.
2. Contract between The University of Texas at Austin and Carnation Company, signed by Vice President James H. Colvin, whereby the Carnation Company agrees to furnish milk to the varsity cafeteria, residence halls, Texas Union and other food services as requested by the University for the period September 1, 1972 through August 31, 1973, at the per unit cost listed in the contract.
3. Lease (U-2469L) between The University of Texas at Austin (Extension Teaching Division) and San Jacinto Properties, signed by E. D. Walker, Deputy Chancellor for Administration, whereby San Jacinto Properties agrees to lease the University 2,288 square feet of space at 25.16c per square foot per month or a total of \$575.68 per month of the property located at 503 San Jacinto in Austin, Texas, for the period September 1, 1972 through August 31, 1973.
4. Memorandum Agreement for Research between The University of Texas at Austin and the Natural Fibers and Food Protein Committee, signed by Bobby G. Cook, Business Manager, for Vice President James H. Colvin, for the period September 1, 1972 through August 31, 1973. Total amount not to exceed \$73,100.00.
5. Amendment No. 1 to Interagency Cooperation Contract No. (72-73)-391, between The University of Texas at Austin (Office of School Surveys) and the Texas Department of Mental Health and Mental Retardation, amending items 4 and 6 of Number III (Bases for Calculating Reimbursable Costs) in the Original Contract, amending Travel (Rates as set by State Appropriations Bill) from \$40,000.00 to \$35,000.00; Reproduction and Distribution Services, from \$3,000.00 (Reproduction Services only) to \$8,000.00 (Reproduction and Distribution Services). This amendment becomes effective June 29, 1972 and goes through August 31, 1972. All other terms and conditions remain the same.
6. Interagency Cooperation Contract No. IAC(72-73)-593, between The University of Texas at Austin (College of Engineering-Department of Mechanical Engineering) and the Office of Information Services with the Governor's Office, signed by Vice President James H. Colvin, whereby the University agrees to render certain technical and professional services which will encompass the implementation of curriculum and instruction for a five-day seminar on Computer Assisted Decision Making for Texas government executives. The contract period is from August 1, 1972 through April 30, 1973. Total amount not to exceed \$20,655.00.

7. Interagency Cooperation Contract No. IAC(72-73)-599, between The University of Texas at Austin (Bureau of Business Research) and the Office of the Governor (Office of Information Services), signed by Vice President James H. Colvin, whereby the University agrees to sell magnetic data processing tapes of statistical data to the Office of the Governor. Period covered is from August 1, 1972 through December 31, 1972. Total amount not to exceed \$3,000.00.
8. Interagency Cooperation Contract No. IAC(72-73)-615, between The University of Texas at Austin (College of Engineering) and the Office of Information Services with the Governor's Office, signed by Vice President James H. Colvin, whereby the University agrees to provide the professional services for supervision and direction of selected staff members of the Division of Management Science set forth in connection with the Project of the Planning Agency under Urban Planning Grant Contract No. CPA-Tx-06-16-1024. Period covered is from September 1, 1972 through August 31, 1973. Total amount not to exceed \$6,500.00.
9. Interagency Cooperation Contract No. IAC(72-73)-625, between The University of Texas at Austin (Division of Extension) and the Texas Water Quality Board, signed by Vice President James H. Colvin, whereby the University agrees to provide a five day short course on Advanced Water Pollution Control: Biological Waste Treatment. Period covered is from September 11, 1972 through September 15, 1972. Total amount not to exceed \$1,125.00.
10. Interagency Cooperation Contract No. IAC(72-73)-626, between The University of Texas at Austin (Division of Extension) and the Texas Water Quality Board, signed by Vice President James H. Colvin, whereby the University agrees to provide a five day short course on Advanced Water Pollution Control: Physical and Chemical Waste Treatment. Period covered is from October 23, 1972 through October 27, 1972. Total amount not to exceed \$1,125.00.
11. Interagency Cooperation Contract No. IAC(72-73)-640, between The University of Texas at Austin (Visual Instruction Bureau) and the Texas Rehabilitation Commission, signed by Vice President James H. Colvin, whereby the University agrees to provide 16mm film to be used by the Texas Rehabilitation Commission in its in-service training program for employees. Period of the contract is from August 14, 1972 through August 31, 1973. Total amount not to exceed \$600.00.
12. Interagency Cooperation Contract No. IAC(72-73)-657, between The University of Texas at Austin (Office of School Surveys) and the Texas Department of Mental Health and Mental Retardation, signed by Vice President James H. Colvin, whereby the University agrees to provide a comprehensive analysis and interpretation of survey data obtained in connection with Interagency Cooperation Contract No. (72-73)-391, and also agrees to produce a "planning document" which organizes the analyzed data into a useable form including a breakdown by Governor's Planning Regions, and will provide Receiving Agency with 200 copies. Period of the contract is from September 1, 1972 through June 30, 1973. Total amount not to exceed \$20,000.00.

13. Interagency Cooperation Contract IAC(72-73)-664, between The University of Texas at Austin (Office of Student Financial Aids) and the Coordinating Board, Texas College and University System, signed by Vice President James H. Colvin, whereby the University agrees to provide employees qualified to work under the work study program, and the Coordinating Board agrees to furnish employment for these students. Period of the contract is from September 1, 1972 through August 31, 1973. Total amount not to exceed \$10,000.00.
14. Interagency Cooperation Contract No. IAC(72-73)-669, between The University of Texas at Austin (College of Engineering-Department of Civil Engineering) and the Texas Water Rights Commission, signed by Vice President James H. Colvin, whereby the University will investigate the relationship of climatic variations to the water resources of the Pecos River watershed. The contract period is from August 22, 1972 through August 31, 1972. Total amount not to exceed \$7,000.00.
15. Interagency Cooperation Contract No. IAC(72-73)-675, between The University of Texas at Austin (Center for Research in Water Resources) and The Lower Colorado River Authority, signed by Bobby G. Cook, Business Manager, for Vice President James H. Colvin, whereby the University agrees to gather, analyze and interpret temperature, water quality and biological data "before" and "after" the operation by the Lower Colorado River Authority of the first 440Mw unit of the generating station on Lake Lyndon B. Johnson. This contract period is from September 1, 1972 through August 31, 1973. The total amount is not to exceed \$53,340.00.
16. Interagency Cooperation Contract No. IAC(72-73)-684, between The University of Texas at Austin (Center for Research in Water Resources) and the Texas Water Development Board, signed by Bobby G. Cook, Business Manager, for Vice President James H. Colvin, whereby the University agrees to make a comprehensive statistical analysis of streamflow and precipitation data in several river basins in Texas, particularly including the Guadalupe, San Antonio and Nueces River Basin. This contract period is from August 10, 1972 through August 1, 1973. The total amount is not to exceed \$38,170.00.
17. Interagency Cooperation Contract No. IAC(72-73)-685, between The University of Texas at Austin (Project C-BE Computer Based Education - Department of Mechanical Engineering) and Southwest Texas State University, signed by Bobby G. Cook, Business Manager, for Vice President James H. Colvin, whereby the University agrees to furnish teletypewriter maintenance service. The contract period is from September 1, 1972 through August 31, 1973. Total amount not to exceed \$1,368.00.
18. Interagency Cooperation Contract No. IAC(72-73)-686, between The University of Texas at Austin (Center for Highway Research) and the Texas Highway Department, signed by Vice President James H. Colvin, whereby the University agrees to provide services of personnel employed by the Center for Highway Research necessary for the execution and evaluation of the electronic weigh-in-motion scale system suitable for routine operation in Texas by technicians in the Planning Survey Division, Texas Highway Department. This contract period is from September 1, 1972 through August 31, 1973. Total amount not to exceed \$5,000.00.

19. Interagency Cooperation Contract No. IAC(72-73)-700, between The University of Texas at Austin (Center for Research in Water Resources) and the Texas Water Development Board, signed by Bobby G. Cook, Business Manager, for Vice President James H. Colvin, whereby the University will conduct the first phase of a program, the purpose of which shall be to identify the environmental and canal location, construction and operation factors which must be considered in assessing the environmental impact of the coastal canal on the land and waters in the canal route. This contract period is from August 1, 1972 through July 31, 1973. Total amount not to exceed \$85,000.00.
20. Interagency Cooperation Contract No. IAC(72-73)-710, between The University of Texas at Austin (Bureau of Economic Geology) and the General Land Office, signed by Bobby G. Cook, Business Manager, for Vice President James H. Colvin, whereby the University shall conduct geological work in Matagorda Bay. The contract period is from September 1, 1972 through August 31, 1973. Total amount not to exceed \$21,000.00.
21. Interagency Cooperation Contract No. IAC (72-73)-721, between The University of Texas at Austin (Texas Memorial Museum) and the Texas Highway Department, signed by Bobby G. Cook, Business Manager, for Vice President James H. Colvin, whereby the University agrees to perform Carbon 14 dating tests of charcoal and bone specimens which have been, or may be in the future, excavated from archeological sites on the Texas Highway System. The contract period is from September 1, 1972 through August 31, 1973. Total amount not to exceed \$4,000.00.
22. Interagency Cooperation Contract No. IAC(72-73)-728, between The University of Texas at Austin (Bureau of Economic Geology) and the Texas Water Development Board, whereby the University agrees to provide environmental geologic mapping of portions of Guadalupe, San Antonio and Nueces River Basins. This contract period is from September 1, 1972 through August 31, 1973. Total amount not to exceed \$113,690.00.
23. Interagency Cooperation Contract No. IAC(72-73)-729, between The University of Texas at Austin (Department of Education - Office of School Surveys) and the Texas Education Agency, signed by Vice President James H. Colvin, whereby the University will assist in collecting and analyzing data within the project titled "Pupil Re-entry Into Mainstream Education". The contract period is from September 1, 1972 through August 31, 1973. Total amount not to exceed \$35,000.00.
24. Interagency Cooperation Contract No. IAC(72-73)-730, between The University of Texas at Austin (College of Education - Office of School Surveys) and the Texas Education Agency, signed by Vice President James H. Colvin, whereby the University will assist the Texas Education Agency in developing an innovative, competency-based Special Education Supervisor Preparation Program. The contract period is from July 1, 1972 through June 30, 1973. The total amount is not to exceed \$65,000.00.

F

TRAVEL FOR FACULTY AND STAFF. The following trips are reported in ACCORDANCE WITH Section 12 of the Budget Rules and Procedures for 1972-73 when expenses are paid from funds not specifically designated for travel; and in accordance with Section 12.23 of Chapter II of Part Two of the Rules and Regulations of the Board of Regents for the Government of The University of Texas when the absence is for a longer period than twenty-nine days.

1. Robin W. Doughty, Assistant Professor of Geography, July 22, 1972 to August 25, 1972, to Berkeley, California and San Francisco, California, to research at the University of California Library and consult with faculty in California in order to prepare a publication "Geography and Environmental Education" requested by the National Commission on College Geography. Expenses in the approximate amount of \$340.00 to be paid from grant SRF-305-Doughty.
2. Frazer Owen, Research Assistant for Organized Research in Astronomy, June 18, 1972 to July 26, 1972, to Charlottesville, Virginia and Greenbank, W. Virginia to observe run on 300' radio telescope at the National Radio Astronomy Observatory. Expenses in the approximate amount of \$355.00 to be paid from the Director's Emergency Fund.
3. Denis Alan Kohl, Assistant Professor of Chemistry, September 2, 1972 to September 13, 1972, to Kyoto, Tokyo, and Sapporo, Japan, to give invited lectures. Expenses in the approximate amount of \$1,420.00 to be paid \$500.00 NSF GZ-2148 Other Expenses (Kohl); part of travel from foreign sources and part of expenses from #30-7495-0947 Travel Funds.
4. Kenneth E. Knight, Associate Professor of Management, May 29, 1972 to July 16, 1972, to Albuquerque, New Mexico; Cortez, Colorado; Houston, Texas; Austin, Texas; Dallas, Texas; San Antonio, Texas; Austin, Texas; Las Vegas, Nevada; Los Angeles, California; San Francisco, California; Austin, Texas; Evansville, Indiana; Cincinnati, Ohio; Syracuse, New York; New York City, New York; Greenville, South Carolina; Los Angeles, California; San Francisco, California; Austin, Texas; to attend MESBIC conference and to work on case preparation for MESBIC research project. Expenses in approximate amount of \$2,200.00 to be paid from Contract 2-37031 US Dept. of Commerce - Knight - funds.
5. Eugene H. Wissler, Associate Dean for Academic Affairs, College of Engineering, July 14, 1972 to August 15, 1972, to Philadelphia, Pennsylvania; to visit Laboratory of Pharmacology at the University of Pennsylvania; to Centre D'Etudes Marine Avancies, Marseilles, France; Royal Naval Physiological Laboratory, Alverstoke, Hants, England; on research in the area of diving technology. Will also present the opening speech at the Orbital Mechanics Institute in Italy. Expenses in the approximate amount of \$800.00 to be paid from Engineering Foundation Administrative Travel funds.

6. Thomas W. Kennedy, Associate Professor, Assistant Chairman, of Civil Engineering, August 17, 1972 to September 16, 1972, to London, England, and Washington, D. C., to participate in the Third International Conference on the Structural Design of Asphalt Pavements and present a paper and to discuss the University Transportation Program with Congressman J. J. Pickle and William F. Brown. Expenses in the approximate amount of \$1,035.00 will be paid as follows: Engineering Foundation Faculty Travel - \$250.00; Various Donors Various Purposes - \$100.00; Ford Foundation Program Development Doctoral - \$200.00; Civil Engineering Travel Funds - \$85.00; URI grant funds pending - \$400.00.

7. Reginald Wayne Clark, Research Engineer Scientist Associate IV in Electrical Engineering, June 2, 1972 to August 26, 1972, to Ithaca, New York, to do research at Cornell University for summer; will travel to Lubbock, Texas July 6-8 to attend American Physical Society Topical Conference on RF Plasma Heating. Expenses in the approximate amount of \$1,507.00 to be paid from AEC #AT-(40-1)-3871 travel funds.

8. Donald Gary Swanson, Associate Professor of Electrical Engineering, to Ithaca, New York, to do research at Cornell University for the summer; will travel to Lubbock, Texas, during this period to attend American Physical Society Topical Conference on RF Plasma Heating, July 6, 1972. Expenses for mileage to be paid from AEC #AT-(40-1)-3871 travel funds.

USE OF TEXTBOOKS WRITTEN BY FACULTY. In accordance with Chapter III, Section 24 of Part One of the Regents' Rules and Regulations for the Government of The University of Texas, I recommend approval of the use of the following faculty authored books as textbooks for the 1972-73 fiscal year.

<u>Title</u>	<u>Author(s)</u>	<u>Cost to Student</u>	<u>Royalty per volume per author</u>
Exploration and Empire	W. H. Goetzmann	\$ 3.00	\$.30
History of the American People, Volume I	Graebner, Fite, <u>White</u>	6.96	.30
*The Seeds of Politics	A. Orum	5.95	10%
*Introduction to Approximation Theory	Elliott W. Cheney	14.50	15%
*Abstract Harmonic Analysis	Edwin Hewitt	20.90	33-1/3%
*Approximation of Functions	George G. Lorentz	7.25	15%
*The Mathematics of Investment	Roger Osborn	6.75	0.675
*A Survey of Numerical Mathematics Volume I	D. Young, R. Gregory	15.00	20%

<u>Title</u>	<u>Author(s)</u>	<u>Cost to Student</u>	<u>Royalty per volume per author</u>
Foreign Languages in the Elementary School: A Struggle Against Mediocrity	T. Andersson	\$ 6.75	\$,54
* Guide for the Beginning Choral Director	G. Lamb (ed.)	1.75	None

* Indicates these textbooks have not been previously used by The University of Texas at Austin.

GRADUATE FACULTY MEMBERSHIP. I recommend approval of the appointment of the following to membership in the Graduate Faculty, all of whom have been nominated by their graduate school committees, and the names submitted by Dean Archie W. Straiton, Acting Dean of the Graduate School.

COLLEGE OF NATURAL SCIENCES

Department of Physics

Associate Professor William Rory Coker

Associate Professor Manfred Fink

GIFTS TO THE UNIVERSITY OF TEXAS AT AUSTIN

The following gifts have been received at The University of Texas at Austin. I recommend acceptance and that the thanks and appreciation of the Board be sent the donors by the Secretary.

A single asterisk preceding the name of the donor indicates no letter of transmittal from the donor. Two asterisks following the dollar amount indicate a noncash gift. In the case of unsold stock, the dollar amount stated is an appraisal or book value.

	DONOR	PURPOSE AND CONDITIONS	AMOUNT
1	Mr. and Mrs. L. T. Barrow 3314 Chevy Chase Drive Houston, Texas 77019	Dept. of Geological Sciences Gift of 130 shares of Standard Oil Company (New Jersey) stock for the Alexander Deussen Pro- fessorship of Energy Resources Fund	\$10,432.50**
2	* Dwight D. Book Estate c/o Trust Department, San Antonio Loan and Trust Company P. O. Box 1228 San Antonio, Texas 78206	U. T. Austin Regular distribution of income from the Book Estate, to be used for student scholarships	7,819.64
3	George W. Brackenridge Foundation G. M. Denman, Jr., Trustee 711 Navarro Street San Antonio, Texas 78205	U. T. Austin Contribution to provide schol- arship funds for numerous designated students	10,250.00
4	T. J. Brown and C. A. Lupton Foundation, Inc. Sam P. Woodson, Jr. Managing Director P. O. Box 1378 Fort Worth, Texas 76101	U. T. Austin Contribution to be used for the benefit of the Arts and Sciences Foundation	15,000.00
5	The Clayton Fund E. A. Tribe P. O. Box 2538 Houston, Texas 77001	U. T. Austin Contribution to provide schol- arship funds for numerous designated students	7,050.00
6	* Mr. and Mrs. T. J. Fatso, Jr. 1603 Fannin Bank Building Houston, Texas 77025	U. T. Austin Contribution in support of the Memorial Stadium Expansion Program	9,000.00

DONOR	PURPOSE AND CONDITIONS	AMOUNT
7 *Fondation Nationale pour l'Enseignement de la Gestion des Entreprises 155 Boulevard Haussmann Paris, France	College of Business Administration Contribution in support of the program of business education for French educators during 1972-73. This program was started in 1971.	\$30,000.00
8 *Ford Motor Company Michael Ference, Jr. Vice President 20000 Rotunda Drive Dearborn, Michigan 48121	College of Engineering Contribution to the Department of Mechanical Engineering to continue the graduate research program in grinding studies	5,000.00
9 Houston Endowment Inc. J. H. Creekmore, President P. O. Box 52338 Houston, Texas 77052	U. T. Austin Contributions to continue for 1972-73 the following established programs: School of Communication: Jesse H. Jones Professorship in Journalism, \$50,000 Public Affairs Reporting Program \$10,000 Martin Emmet Walter Scholarships, \$ 5,000 Jesse H. Jones Scholarships in Journalism, \$ 4,000 College of Engineering: Jesse H. Jones Scholarships in Engineering, \$12,500 College of Fine Arts: Jesse H. Jones and Mary Gibbs Jones Scholarships in the Fine Arts, \$10,000 Grant for special art exhibit, "Not So Long Ago: Art of the 1920's in Europe and America" \$ 4,000 Naval Science: Jesse H. Jones Naval Scholarship Honoring Fleet Admiral Ernest J. King, \$ 1,000 Jesse H. Jones Naval Scholarship Honoring Fleet Admiral Chester W. Nimitz, \$ 1,000	97,500.00
10 Houston Endowment Inc. J. H. Creekmore, President P. O. Box 52338 Houston, Texas 77052	U. T. Austin Contribution to provide scholarships for numerous designated students	27,500.00

DONOR	PURPOSE AND CONDITIONS	AMOUNT
11 The Moody Foundation Robert E. Baker Executive Administrator 704 Moody National Bank Building Galveston, Texas 77550	College of Business Administration Second payment on grant of \$15,000 for the academic excellence program	\$5,000.00
12 The Moody Foundation Robert E. Baker Executive Administrator 704 Moody National Bank Building Galveston, Texas 77550	U. T. Austin Contribution to provide scholarship funds for numerous designated students	22,550.00
13 * National Asphalt Pave- ment Association John Gray, Executive Director 6811 Kenilworth Avenue Riverdale, Maryland 20840	College of Engineering Renewal of grant to the Department of Mechanical Engineering for research related to operation of asphalt manufacturing plants	5,000.00
14 Minnie Stevens Piper Foundation W. C. Wiederhold Executive Director P. O. Box 1137 San Antonio, Texas 78206	U. T. Austin Contribution to provide scholarship funds for numerous designated students	11,200.00
15 Texas Interscholastic League Foundation R. J. Kidd, Secretary P. O. Box 8028 Austin, Texas 78712	U. T. Austin Contribution to provide scholarship funds for numerous designated students	23,962.50
16 *The University of Texas Foundation, Inc. P. O. Box 7458 Austin, Texas 78712	College of Business Admin- istration Contribution in support of Project Classroom 1975, to assist in studies for future utilization of classroom space, problems in teaching, etc.	40,000.00
17 Arthur Young Foundation Thomas D. Flynn President 277 Park Avenue New York, New York 10017	College of Business Admin- istration Contribution to establish the Arthur Young Distinguished Professorship of Accounting (professorship approved by the Board of Regents at meet- ing of July 21, 1972)	50,000.00

The following nonmonetary gifts have also been received:

DONOR	PURPOSE AND CONDITIONS	AMOUNT
18 Mrs. Lewis Balamuth Box 413 Southampton, New York 11968	College of Fine Arts Gift to the Art Museum of a watercolor painting by William E. Bergman which depicts the Tower of the U. T. Austin Main Building during its construction	\$ 150.00**
19 Adrian H. Goldstone 35 Lee Street Mill Valley, California 94941	Humanities Research Center Gift of a collection of early issues of Esquire magazine and a group of books and other materials relating to the work of John Steinbeck	375.00**
20 Adrian H. Goldstone 35 Lee Street Mill Valley, California 94941	Humanities Research Center Gift of a miscellaneous collection of book catalogues, manuscripts, and other materials relating to well-known authors	2,450.00**
21 Alfred A. Knopf 201 East 50th Street New York, New York 10022	Humanities Research Center Gift of a collection of foreign editions of Knopf publications to be added to the Alfred A. and Blanche W. Knopf Library	775.00**
22 *Alfred A. Knopf 201 East 50th Street New York, New York 10022	Humanities Research Center Gift of a collection of books for the Alfred A. and Blanche W. Knopf Library	650.00**
23 *Mr. and Mrs. A. J. Thaman, Jr. 2209 New Jersey Street Baytown, Texas 77520	U. T. Austin Library Gift to the Latin American Collection of an oil painting of St. John, probably painted during the eighteenth century, purchased in Peru by Joanne M. Thaman and given in her memory by her parents	600.00**
24 The Tinker Foundation Martha T. Muse, President 645 Madison Avenue New York, New York 10022	Humanities Research Center Collection of fine volumes and other items from the library of Edward Larocque Tinker	25,000.00**
25 Mrs. O. Douglas Weeks 1606 Northwood Road Austin, Texas 78703	Humanities Research Center Gift of about 60 books dating from 1790 to 1870 from the Devereux Library to be added to the Texas Collection	1,350.00**

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET

The term "rate" for academic personnel is the full-time nine-month base rate; for classified personnel it is the full-time twelve-month rate, the appointee receiving a proportionate amount depending upon the fraction of time for which he is appointed and the period of his appointment. Source of funds for payment of salaries, unless otherwise shown, is the departmental salaries account.

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

GENERAL ADMINISTRATION
AND STUDENT SERVICES

Office of the President

Transfer of Funds

1. Amount of Transfer - \$3,000

To: Office of the President - Maintenance and Operation

From: Unallocated Maintenance and Operation

Funds were transferred to meet unanticipated operational needs.
(RBC# 3648)

Office of the Vice President
for Student Affairs

Transfer Between Dissimilar Appropriations

2. Amount of Transfer - \$500

To: Travel

From: Consultant Fees

Additional funds were required to allow for unanticipated travel expense.
(RBC# 3629)

Office of the Vice President
for Academic Affairs

Transfer Between Dissimilar Appropriations

3. Amount of Transfer - \$3,739

To: Maintenance, Operation and Equipment

From: Travel

To transfer funds needed to cover operational expenses for the remainder of the fiscal year.
(RBC# 3739)

Office of Accounting

Interdepartmental Transfer

4. Amount of Transfer - \$1,459

To: Office of Accounting - Classified Personnel

From: Purchasing Office - Classified Personnel

Funds were needed to pay the salary of a Senior Procurement Officer for the period July 11 through August 31, 1972.
(RBC# 3488)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

GENERAL ADMINISTRATION AND STUDENT SERVICES (Continued)

Data Processing Division

Transfer Between Dissimilar Appropriations

5. Amount of Transfer - \$25,000

To: Computer Rental and Purchased Services

From: Classified Personnel Salaries

Transfer funds to purchase the data base management system package TOTAL from Cincom Systems, Inc. This is to be used in the development of such systems as Payroll, Personnel, Budget, Alumni Donor, Coordinating Board, and Teacher Workload.
(RBC# 3535)

Office of the Dean of Students

Appointment

Associate Dean of Students

6. Reuben R. McDaniel, Jr. (non-tenure) (RBC# 3601)	8/1 - 8/31	100	12	\$ 20,500
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Transfer Between Dissimilar Appropriations

7. Amount of Transfer - \$7,388

To: Orientation

From: Classified Personnel

Funds were used to pay the salaries of Orientation advisors for two sessions of Orientation and for other expenses in connection with the Orientation program.
(RBC# 3599)

Measurement and Evaluation Center

Transfer of Funds

8. Amount of Transfer - \$220

To: Measurement and Evaluation Center - Maintenance, Operation and Equipment

From: Unallocated Maintenance and Operation

Additional funds were needed to defray installation charges for Measurement and Evaluation Center remote job entry modems.
(RBC# 3463)

Student Financial Aids

Transfer Between Dissimilar Appropriations

9. Amount of Transfer - \$350

To: Development of Student Services

From: Classified Personnel

These additional funds were needed to complete programs already in process.
(RBC# 3597)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

GENERAL ADMINISTRATION AND STUDENT SERVICES (Continued)

International Office

Transfer of Funds

10. Amount of Transfer - \$7,405

To: International Office - Wages (\$6,000)
International Office - Maintenance, Operation and Equipment (\$1,405)

From: Unallocated Maintenance and Operation

To return to the International Office a portion of the Summer 1972 tuition and fees paid for 62 participants in the Latin American Scholarship Program of American Universities. The tuition and fees were deposited to General Budget Income but are needed now to defray expenses incurred by the International Office in presenting this program.
(RBC# 3643)

GENERAL INSTITUTIONAL EXPENSE

Office of Institutional Studies

Transfer Between Dissimilar Appropriations

11. Amount of Transfer - \$1,400

To: Maintenance, Operation and Equipment

From: Classified Salaries (\$1,000)
Wages (\$400)

Funds were needed to pay computer rental.
(RBC# 3444, 3445)

Miscellaneous General Institutional Expense - Commencement

Transfer of Funds

12. Amount of Transfer - \$650

To: Commencement

From: Unallocated Maintenance and Operation

Funds were needed to meet increased expenses of the 1972 Spring Commencement caused primarily by increases in printing costs.
(RBC# 3557)

Miscellaneous General Institutional Expense - Institutional Memberships

Transfer of Funds

13. Amount of Transfer - \$2,000

To: Institutional Memberships

From: Unallocated Maintenance and Operation

Funds were needed to cover increases in dues and in the number of institutional memberships.
(RBC# 3648)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

SCHOOL OF ARCHITECTURE

Transfer of Funds

14. Amount of Transfer - \$2,806

To: School of Architecture - Maintenance, Operation and Equipment

From: Unallocated Maintenance and Operation (\$700)

School of Architecture - Computer Rental and Purchased Service (\$613)

School of Architecture - Classified Salaries (\$493)

School of Architecture - Administrative and Professional Salaries (\$1,000)

To help defray cost of teletype rental and for computer charges.
(RBC# 3472, 3641)SCHOOL OF ARCHITECTURE -
PLANNING PROGRAM

Transfer between Dissimilar Appropriations

15. Amount of Transfer - \$98

To: Maintenance and Operation

From: Travel

Funds available in the Travel account were needed for operational expenses.
(RBC# 3356)OFFICE OF THE PROVOST FOR
ARTS AND SCIENCES

Interdepartmental Transfer

16. Amount of Transfer - \$916

To: Office of the Provost - Wages

From: Oriental and African Languages and Literatures - Wages

Reallocation of wages funds to provide for actual needs.
(RBC# 3486)COLLEGE OF HUMANITIESOriental and African
Languages and Literatures

Interdepartmental Transfer

17. Amount of Transfer - \$150

To: Oriental and African Languages and Literatures - Maintenance and
Operation

From: Office of the Dean - Maintenance and Operation

Reallocation of operational funds to provide for supplies needed
by this department.
(RBC# 3666)

Interdepartmental Transfer

18. Amount of Transfer - \$261

To: Oriental and African Languages and Literatures - Teaching Assistants

From: English - Faculty Salaries

Reallocation of teaching salaries funds within this college to provide
for faculty employed during the Spring Semester.
(RBC# 3665)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

COLLEGE OF HUMANITIES (Continued)Philosophy

Transfer between Dissimilar

Appropriations

19. Amount of Transfer - \$64

To: Visiting Lecturers (\$50)
Wages (\$14)

From: Maintenance and Operation

Reallocation of departmental funds to provide a stipend for a Visiting Lecturer and wages for Work-Study students.
(RBC# 3783, 3789)

Interdepartmental Transfer

20. Amount of Transfer - \$665

To: Philosophy - Teaching Assistants

From: English - Faculty Salaries

Reallocation of teaching salary funds within this college to cover salaries of teaching staff employed during the Spring Semester.
(RBC# 3640)

Slavic Languages

Interdepartmental Transfer

21. Amount of Transfer - \$200

To: Slavic Languages - Visiting Lecturers

From: Office of the Dean - Visiting Lecturers

Funds were used for the stipend of a visiting lecturer in the Slavic Languages Department.
(RBC# 3354)

Spanish and Portuguese

Transfer of Funds

22. Amount of Transfer - \$1,300

To: Spanish and Portuguese - Maintenance and Operation

From: Germanic Languages - Maintenance and Operation (\$300)
Classics - Maintenance and Operation (\$300)
French and Italian - Maintenance and Operation (\$500)
Unallocated Maintenance and Operation (\$200)

To reimburse the Department of Spanish and Portuguese for special telephone relocation expenses incurred incident to the razing of Pearce Hall and moving the offices of Teaching Assistants of these various departments to 2601 University.
(RBC# 3805, 3812, 3813, 3814)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

Anthropology

Transfer Between Dissimilar Appropriations

23. Amount of Transfer - \$50

To: Teaching Assistants

From: Classified Personnel

Reallocation of departmental funds to provide additional salary support needed for a Teaching Assistant during the Spring Semester.
(RBC# 3554)

Economics

Appointment

Professor

24. Forest G. Hill (Tenure)

Special Faculty Assignment
(RBC# 3815)

7/16 - 8/31

100

Academic

Rate

\$ 21,000

Stipend

\$ 3,000

Government

Transfer of Funds

25. Amount of Transfer - \$1,104

To: Government - Maintenance and Operation

From: Unallocated Maintenance and Operation

Government s312L "Law and Order in American Society" is a course for which students pay a supplementary fee. This transfer is to reimburse the Government Department from fees collected for expenses incurred in the presentation of this course.
(RBC# 3684)

Transfer Between Dissimilar Appropriations

26. Amount of Transfer - \$760

To: Maintenance and Operation

From: Computer Rental and Purchased Services (\$510)
Travel (\$250)

Reallocation of departmental funds for better utilization.
(RBC# 3373, 3455, 3780)

History

Transfer Between Dissimilar Appropriations

27. Amount of Transfer - \$1,710

To: Wages

From: Faculty Salaries - Summer Session

The summer needs of this department require the greater use of part-time student assistants than was originally anticipated.
(RBC# 3682)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

COLLEGE OF NATURAL SCIENCESOffice of the Dean

Transfer of Funds

28. Amount of Transfer - \$6,000

To: Office of the Dean - Special Equipment

From: Unallocated Special Equipment

Funds were used for the purchase of low-temperature spectroscopy equipment.

(RBC# 3556)

Astronomy

Transfer Between Dissimilar Appropriations

29. Amount of Transfer - \$1,700

To: Maintenance and Operation

From: Computer Rental and Purchased Services

Transfer funds needed to cover Computation Center charges for computer supplies and accessories for the remainder of the fiscal year.

(RBC# 3550)

Biological Sciences

Interdepartmental Transfer

30. Amount of Transfer - \$20

To: Division of Biological Sciences - Classified Personnel

From: Office of the Dean - Wages

Funds were used to provide the additional salary support needed for a Secretary currently employed.

(RBC# 3810)

Botany

Interdepartmental Transfer

31. Amount of Transfer - \$56

To: Botany - Wages

From: Office of the Provost - Wages

Funds were used for a Work-Study student.

(RBC# 3447)

Chemistry

Transfer of Funds

32. Amount of Transfer - \$274

To: Teaching Assistants - General Operating Budget

From: Teaching Assistants - Summer Session Budget

Funds were used for the salary of a Teaching Assistant employed during the Spring Semester.

(RBC# 3530)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

COLLEGE OF NATURAL SCIENCES (Continued)Mathematics

Appointment

Professor

33. Edwin Hewitt (Tenure)

Special Faculty Assignment

8/1 - 8/31

100

Academic

Rate

\$ 35,000

Stipend

\$ 3,000

Source of Funds: Transfer from
the Department's Classified
Salaries account
(RBC# 3651, 2604)

Transfer Between Dissimilar Appropriations

34. Amount of Transfer - \$607

To: Maintenance and Operation

From: Computer Rental and Purchased Services

Reallocation of departmental funds to provide for operational needs for
the remainder of the fiscal year.
(RBC# 3683)

Microbiology

Transfer Between Dissimilar Appropriations

35. Amount of Transfer - \$9

To: Wages

From: Maintenance and Operation

Reallocation of departmental funds to provide the additional support
needed for the wages of a student helper in the Microbiology
storeroom.
(RBC# 3352)

DIVISION OF GENERAL AND
COMPARATIVE STUDIESLanguage Laboratory

Transfer Between Dissimilar Appropriations

36. Amount of Transfer - \$1,500

To: Wages

From: Programmatic Recording

Funds were needed to pay hourly employees through the remainder of
the fiscal year.
(RBC# 3647)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

COLLEGE OF BUSINESS ADMINISTRATION

Office of the Dean

Transfer Between Dissimilar Appropriations

37. Amount of Transfer - \$1,660

To: Classified Personnel Salaries (\$200)
Wages (\$360)
Maintenance and Operation (\$1,100)

From: Visiting Lecturers (\$1,300)
Dean's Reserve (\$360)

Reallocation of funds within this office to provide for support personnel and operational needs for the remainder of the fiscal year.
(RBC# 3453, 3466, 3781, 3809)

General Business

Transfer of Funds

38. Amount of Transfer - \$741

To: General Business - Secretarial Center (\$70)
General Business - Wages (\$671)

From: General Business - Maintenance and Operation (\$70)
Office of the Dean - Dean's Reserve (\$671)

Increased enrollment during the Second Term, Summer Session, required the use of part-time personnel to aid the regular staff in clerical work.

(RBC# 3551, 3644)

Management

Transfer Between Dissimilar Appropriations

39. Amount of Transfer - \$100

To: Maintenance and Operation

From: Wages

Funds available in the Wages account were needed for supplies essential to the department's completing the Second Term, Summer Session.

(RBC# 3721)

SCHOOL OF COMMUNICATION

Journalism

Interdepartmental Transfer

40. Amount of Transfer - \$1,722

To: Maintenance and Operation

From: Classified Personnel Salaries (\$1,138)
Teaching Assistants - Summer Session (\$417)
Clinic and Workshop Fund (\$167)

Funds available, due to personnel changes in the classified staff and faculty and the failure of a workshop to materialize, were needed to meet operational expenses.

(RBC# 3779, 3778, 3646)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

SCHOOL OF COMMUNICATION (Continued)Radio/Television/Film

Transfer Between Dissimilar Appropriations

41. Amount of Transfer - \$4,000

To: Classified Personnel Salaries

From: Maintenance and Operation

Reallocation of departmental funds to provide for actual needs.
(RBC# 3542)Speech

Transfer Between Dissimilar Appropriations

42. Amount of Transfer - \$50

To: Maintenance and Operation

From: Computer Rental and Purchased Services

Reallocation of departmental funds to meet operational needs.
(RBC# 3681)COLLEGE OF EDUCATIONCurriculum and Instruction

Transfer of Funds

43. Amount of Transfer - \$631

To: Curriculum and Instruction - Maintenance and Operation

From: Curriculum and Instruction - Classified Personnel (\$31)
Office of the Dean - Maintenance and Operation (\$600)To provide for the operational needs of this department for the remainder of the fiscal year.
(RBC# 3714, 3541)Special Education

Transfer Between Dissimilar Appropriations

44. Amount of Transfer - \$200

To: Wages

From: Summer Session - Teaching Assistants

To provide part-time, temporary help needed in the area of Early Childhood Education of Handicapped Children.
(RBC# 3474)COLLEGE OF ENGINEERINGOffice of the Dean

Transfer Between Dissimilar Appropriations

45. Amount of Transfer - \$423

To: Office of the Dean - Visiting Lecturers and Consultants

From: Electrical Engineering - Travel (\$220)
Civil Engineering - Architectural Engineering Division - Travel (\$203)To reimburse the Dean's Visiting Lecturers account for expenses of seminars and lectures presented for these departments.
(RBC# 3664, 3787, 3749)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

COLLEGE OF ENGINEERINGOffice of the Dean (Continued)

Transfer Between Dissimilar Appropriations

46. Amount of Transfer - \$450

To: Maintenance and Operation

From: Wages

Funds were used for secretarial assistance provided by an off-campus agency, since a replacement for a secretary could not be found immediately upon her termination.

(RBC# 3746)

Aerospace Engineering and Engineering Mechanics - Engineering Mechanics Division

Transfer of Funds

47. Amount of Transfer - \$575

To: Wages

From: Summer Session Faculty Salaries

To return to the departmental wages account that portion of funds previously transferred to their Summer Session Faculty Salaries account which were unused due to faculty reassignments.

(RBC# 3345)

Civil Engineering

Transfer Between Dissimilar Appropriations

48. Amount of Transfer - \$495

To: Maintenance and Operation

From: Travel

Transfer of funds to meet the department's operational requirements.

(RBC# 3750)

Transfer of Funds

49. Amount of Transfer - \$764

To: Civil Engineering - Classified Personnel Salaries

From: Electrical Engineering - Travel (\$80)
 Electrical Engineering - Classified Personnel Salaries (\$95)
 Electrical Engineering - Wages (\$292)
 Civil Engineering - Maintenance and Operation (\$217)
 Mechanical Engineering - Summer Session Teaching Assistants (\$80)

Reallocation of funds within this college to provide salary support needed for clerical help in the Department of Civil Engineering.

(RBC# 3795, 3796, 3801, 3808, 3793, 3794)

Civil Engineering - Architectural Engineering Division

Interdepartmental Transfer

50. Amount of Transfer - \$7

To: Civil Engineering - Architectural Engineering Division - Wages

From: Civil Engineering - Wages

Reallocation of wages funds within this division to provide for actual needs.

(RBC# 3802)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

COLLEGE OF ENGINEERING (Continued)Electrical Engineering

Transfer Between Dissimilar Appropriations

51. Amount of Transfer - \$592

To: Maintenance and Operation

From: Wages

To return to the Maintenance and Operation account the unused portion of funds previously transferred from it to pay Assistants.
(RBC# 3788)

Mechanical Engineering -
Engineering Graphics Division

Interdepartmental Transfer

52. Amount of Transfer - \$400

To: Mechanical Engineering - Engineering Graphics Division - Wages

From: Mechanical Engineering - Wages

To provide for part-time student assistants needed by the Graphics Division.
(RBC# 3549)

Petroleum Engineering

Transfer Between Dissimilar Appropriations

53. Amount of Transfer - \$576

To: Maintenance and Operation

From: Computer Rental and Purchased Services

To transfer to the Maintenance and Operation account an amount equal to funds encumbered for the renewal rental of an IBM printing card punch for the period 9/1/71 through 8/31/72.
(RBC# 3740)

COLLEGE OF FINE ARTSOffice of the Dean

Appointment

Dean

54. Peter M. Garvie (Tenure) 6/1 - 8/31 100 12 \$ 30,000

Source of Funds: Transfer
from Unallocated Classified
Salaries
(RBC# 3532, 3624)

Transfer Between Dissimilar Appropriations

55. Amount of Transfer - \$165

To: Classified Salaries

From: Maintenance and Operation

Funds available in the Dean's Maintenance and Operation account were needed for salaries of personnel currently employed.
(RBC# 3454)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

COLLEGE OF FINE ARTS (Continued)Art

Transfer of Funds

56. Amount of Transfer - \$952

To: Art - Maintenance and Operation

From: Unallocated Maintenance and Operation

To provide the Art Department with the additional operating funds needed for the remainder of the fiscal year.

(RBC# 3654)

Music

Appointment

Professor

57. E. William Doty (Tenure)

Special Faculty Assignment

6/1 - 7/15

100

Academic
Rate

\$ 26,000

Stipend
Rate

\$ 3,000

Source of Funds: Transfer from
the Departmental Wages account
(RBC# 3656, 3655)LIBRARY

Transfer of Funds

58. Amount of Transfer - \$14,804

To: Library Books, Serials and Bindings

From: Unallocated Maintenance and Operation

Transfer to the Library an amount equal to that received for book fines and losses, which funds were deposited to General Budget Income, but are needed now by the Library to replace books lost.

(RBC# 3811)

Transfer of Funds

59. Amount of Transfer - \$266,936

To: Library - Wages (\$41,500)

Library - Serials and Bindings (\$165,436)

Library - Sets (\$50,000)

Library - Maintenance, Operation and Equipment (\$10,000)

From: Unallocated Special Library

Funds were needed for wages for library personnel, to pay for extensive backlog binding, and to purchase missing serial items, sets, and library materials and supplies for the remainder of the fiscal year.

(RBC# 3593, 3594, 3595, 3596)

Transfer Between Dissimilar Appropriations

60. Amount of Transfer - \$44,306

To: Maintenance, Operation and Equipment

From: Administrative and Professional Salaries (\$6,490)

Classified Personnel (\$29,175)

Reproduction of Card Catalogue (\$8,641)

Reallocation of funds available within the Library's account to purchase supplies needed for the remainder of the fiscal year.

(RBC# 3538, 3537, 3539)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

LIBRARY (Continued)Law Library

Transfer Between Dissimilar Appropriations

61. Amount of Transfer - \$1,775

To: Administrative and Professional Salaries (\$1,015)
 Maintenance, Operation and Equipment (\$600)
 Books, Periodicals, and Bindings (\$160)

From: Classified Personnel

Reallocate funds available in the Law Library accounts to pay the salary of a professional librarian for a portion of the summer, to meet operational needs and to provide additional funds for the purchase of books.

(RBC# 3553, 3540, 3782, 3548)

ORGANIZED RESEARCHBureau of Business Research

Transfer Between Dissimilar Appropriations

62. Amount of Transfer - \$750

To: Maintenance, Operation and Equipment

From: Computer Rental and Purchased Services

Funds were needed for the payment of Taurus line time at the Computation Center and for the purchase of data-processing supplies.
 (RBC# 3358)

Bureau of Economic Geology

Transfer Between Dissimilar Appropriations

63. Amount of Transfer - \$2,000

To: Maintenance and Operation

From: Travel

Transfer unused travel funds to provide for supplies needed for the remainder of the fiscal year.

(RBC# 3741)

Cell Research Institute

Transfer Between Dissimilar Appropriations

64. Amount of Transfer - \$100

To: Maintenance and Operation

From: Computer Rental and Purchased Services

Reallocation of the Institute's funds to provide for purchases made.
 (RBC# 3619)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>ORGANIZED RESEARCH (Continued)</u>				
<u>Center for Highway Research and Bureau of Engineering Research</u>				
Appointment				
Research Engineer (Faculty)				
65. David W. Fowler (Tenure)				
Center for Highway Research - Government Contract - Payroll Clearing Account Funds	6/1 - 8/31	50	9	\$ 14,200
Bureau of Engineering Research	6/1 - 8/31	12.5	9	14,200
Concurrent Employment:				
Civil Engineering - Architectural Engineering Division			Academic Rate	Stipend
Associate Professor (RBC# 3253, 3442)	6/1 - 8/31	37.5	\$ 14,200	\$ 1,774

Center for Communication Research

Transfer Between Dissimilar Appropriations

66. Amount of Transfer - \$50

To: Travel (\$6)
Maintenance and Operation (\$44)

From: Computer Rental and Purchased Services

Reallocation of the Center's funds to meet operational expenses.
(RBC# 3489, 3717)

Center for Mexican-American Studies

Appointment

Social Science Research Associate (Faculty)

67. David Ballesteros (Non-tenure) 8/1 - 8/31 100 9 \$ 16,884

Academic Status:

Adjunct Professor
(Curriculum and Instruction)
(RBC# 3503)

Center for Nuclear Studies

Transfer Between Dissimilar Appropriations

67a. Amount of Transfer - \$1,495

To: Maintenance and Operation

From: Administrative and Professional Salaries (\$83)
Classified Personnel (\$975)
Wages (\$437)

Funds were needed for the operation of the Center for the remainder of
the fiscal year.
(RBC# 3545, 3546, 3547)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>ORGANIZED RESEARCH (Continued)</u>				
<u>Center for Numerical Analysis</u>				
Appointment				
Research Scientist (Faculty)				
68. Richard H. Bartels (Non-tenure)	8/1 - 8/31	50	9	\$ 12,000
Source of Funds: Transfer from the Center's Classified Salaries Account				
Academic Status: Assistant Professor (Computer Sciences) (RBC# 3490, 3634)				
Reappointment				
Director				
69. David M. Young, Jr. (Tenure)	8/10 - 8/31	70	9	24,000
Previous appointment was at the same rate.				
Academic Status: Professor (Mathematics) (RBC# 3639)				
Reappointment				
Research Scientist (Faculty)				
70. Robert T. Gregory (Tenure)	8/1 - 8/31	50	9	23,500
Previous appointment was at the same rate.				
Academic Status: Professor (Computer Sciences) and (Mathematics) (RBC# 3702)				
<u>Center for Relativity Theory</u>				
Transfer Between Dissimilar Appropriations				
71. Amount of Transfer - \$930				
To: Administrative and Professional Salaries				
From: Visiting Lecturers and Consultants				
Funds were used for partial support of the salary of a member of the professional staff. (RBC# 3804)				
Transfer Between Dissimilar Appropriations				
72. Amount of Transfer - \$450				
To: Classified Personnel				
From: Visiting Lecturers and Consultants				
Funds were needed for temporary summer personnel. (RBC# 3544)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>ORGANIZED RESEARCH (Continued)</u>				
<u>Center for Research in Water Resources</u>				
Appointment				
Technical Director				
73. Leo R. Beard (RBC# 3724, 3725)	7/24 - 8/31	100	12	\$ 28,000
Research Engineer (Faculty)				
74. Walter L. Moore (Tenure)	7/18 - 7/31	100	9	20,400
Academic Status:				
Professor				
(Civil Engineering)				
(RBC# 3606)				
Transfer Between Dissimilar Appropriations				
75. Amount of Transfer - \$260				
To: Maintenance, Operation and Equipment				
From: Classified Salaries				
Funds were needed to purchase supplies. (RBC# 3742)				
Transfer Between Dissimilar Appropriations				
76. Amount of Transfer - \$120				
To: Library Acquisitions				
From: Administrative and Professional Salaries (\$25)				
Classified Salaries (\$50)				
Travel (\$45)				
Transfer funds needed to purchase books for the Center's library. (RBC# 3719, 3720, 3716)				
Transfer Between Dissimilar Appropriations				
77. Amount of Transfer - \$86				
To: Classified Salaries				
From: Maintenance, Operation and Equipment (\$50)				
Library Acquisitions (\$6)				
Computer Rental and Purchased Services (\$30)				
Funds were needed to pay the salary of a summer employee. (RBC# 3533, 3826, 3824)				
<u>Center for Structural Studies</u>				
Transfer Between Dissimilar Appropriations				
78. Amount of Transfer - \$8,869				
To: Classified Personnel Salaries				
From: Computer Rental and Purchased Services (\$632)				
Maintenance and Operation (\$8,237)				
Reallocation of the Center's funds to provide for salaries of staff currently employed. (RBC# 3620, 3622)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>ORGANIZED RESEARCH (Continued)</u>				
<u>Communication Center</u>				
Transfer of Funds				
79. Amount of Transfer - \$2,210				
To: Communication Center - Maintenance and Operation				
From: Unallocated Maintenance and Operation				
Funds were needed to meet the Center's operational expenses for the remainder of the fiscal year. (RBC# 3649)				
<u>Division of Natural Resources and Environment</u>				
Transfer Between Dissimilar Appropriations				
80. Amount of Transfer - \$500				
To: Maintenance and Operation				
From: Travel				
Funds available in the Division's Travel account were needed for operating expenses. (RBC# 3738)				
<u>Humanities Research Center</u>				
Transfer Between Dissimilar Appropriations				
81. Amount of Transfer - \$6,975				
To: Maintenance and Operation				
From: Classified Personnel Salaries (\$3,575) Travel (\$3,400)				
Reallocation of the Center's funds to help defray transportation and other related costs in connection with research purchases and gifts. (RBC# 3515, 3491)				
<u>Laboratory for Computer-Assisted Instruction</u>				
Reappointment				
Co-Director				
82. Wilson Judd (Non-tenure)	7/16 - 8/31	100	9	\$ 12,000
Sources of Funds:				
General Budget Funds	7/16 - 8/12 8/23 - 8/31			
NSF Grant Funds	8/13 - 8/22			
Previous appointment was at the same rate.				
Academic Status:				
Assistant Professor (Educational Psychology) (RBC# 3578, 3579, 3822, 3818)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>ORGANIZED RESEARCH (Continued)</u>				
<u>Learning Disabilities Center</u>				
Transfer of Funds				
83. Amount of Transfer - \$72				
To: Learning Disabilities Center - Maintenance and Operation				
From: Learning Disabilities Center - Revolving Fund				
Funds available in the Center's Revolving Fund were needed to help defray telephone expenses.				
(RBC# 3772)				
<u>Marine Science Institute</u>				
<u>at Port Aransas</u>				
Transfer Between Dissimilar Appropriations				
84. Amount of Transfer - \$1,380				
To: Printing and Investigations				
From: Computer Rental and Purchased Services				
Computer Rental funds released due to grant fund support in this area were used to defray expenses incurred in printing of <u>Contributions in Marine Science</u> .				
(RBC# 3737)				
<u>Population Research Center</u>				
Transfer Between Dissimilar Appropriations				
85. Amount of Transfer - \$700				
To: Wages				
From: Computer Rental and Purchased Services				
To return to the Wages account funds previously transferred from it in error.				
(RBC# 3347)				
Transfer Between Dissimilar Appropriations				
86. Amount of Transfer - \$118				
To: Other Expenses				
From: Classified Personnel Salaries				
Reallocation of the Center's funds to provide for expenses incurred.				
(RBC# 3791)				
<u>Research in Astronomy</u>				
Transfer Between Dissimilar Appropriations				
87. Amount of Transfer - \$700				
To: Maintenance and Operation				
From: Computer Rental and Purchased Services				
Transfer funds needed to cover Computation Center charges for computer supplies and accessories for the remainder of the fiscal year.				
(RBC# 3668, 3621)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

ORGANIZED RESEARCH (Continued)McDonald Observatory

Transfer of Funds

88. Amount of Transfer - \$1,150

To: McDonald Observatory - Radio-Astronomy Projects - Special Equipment

From: Unallocated Special Equipment

Funds were used to replace two pieces of test equipment.
(RBC# 3473)Research in Microbiology

Transfer Between Dissimilar Appropriations

89. Amount of Transfer - \$25

To: Wages

From: Maintenance and Operation

Reallocation of funds to provide for wages expenses already incurred.
(RBC# 3552)Research in Texas History

Change of Status

Assistant Director

90. Louis T. Ellis

To: 7/16 - 8/31 100 12 \$ 17,000

From: 7/16 - 8/31 50 12 17,000
(RBC# 3602)Science Education Center

Transfer Between Dissimilar Appropriations

91. Amount of Transfer - \$600

To: Maintenance and Operation

From: Classified Personnel Salaries

Funds available in the Center's Salaries account due to personnel changes during this year were needed for supplies and services required to support the Center's activities.
(RBC# 3355)Social Science Quarterly

Transfer Between Dissimilar Appropriations

92. Amount of Transfer - \$250

To: Wages

From: Maintenance and Operation

Reallocation of funds to provide for actual needs.
(RBC# 3825)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

DIVISION OF EXTENSIONOffice of the Dean

Appointment

Assistant to the Dean

92a. Albert E. Starkey
(RBC# 3677)

8/1 - 8/31

100

12

\$ 18,000

Extension Teaching and
Field Service Bureau

Transfer Between Dissimilar Appropriations

93. Amount of Transfer - \$12,888

To: Maintenance and Operation

From: Extension Classes and Consultant Services (\$12,000)
Clerical Assistants (\$888)

Reallocation of Bureau's funds to provide materials, supplies, and supportive services for the summer evening school, field courses, and other special projects undertaken for the remainder of the fiscal year.
(RBC# 3370)

Industrial and Business
Training Bureau

Transfer Between Dissimilar Appropriations

94. Amount of Transfer - \$7,000

To: Maintenance and Operation

From: Travel

Reallocation of Bureau's funds to provide funds for purchase of supplies and for other operating expenses.
(RBC# 3623)

PHYSICAL PLANT

Transfer of Funds

95. Amount of Transfer - \$15,297

To: Communications and Projections - Classified Personnel (\$257)
Communications and Projections - Wages (\$1,000)
Custodial Services - Maintenance and Operation (\$5,000)
Office of the Director of Physical Plant - Maintenance and Operation (\$40)
Building Maintenance - Utilities - Maintenance and Operation (\$9,000)

From: Building Maintenance - Utilities - Classified Personnel (\$257)
Communications and Projections - Maintenance and Operation (\$10,000)
Grounds Maintenance - Maintenance and Operation (\$3,000)
Lock and Key Service - Maintenance and Operation (\$2,000)
Office of the Superintendent of Utilities - Buildings - Maintenance and Operation (\$40)

To reallocate funds within the Physical Plant area as needed.
(RBC# 3773, 3712, 3711, 3446, 3800)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>UNALLOCATED</u>				
Transfer of Funds				
96. Amount of Transfer - \$20,000				
To: Unallocated Classified Salaries				
From: Unallocated Faculty Salaries				
Reallocation of salary funds to meet unexpected demands on the Classified Salaries account.				
(RBC# 3667)				

SERVICE DEPARTMENTS AND REVOLVING FUNDS

Mechanical Engineering

Appointment

Research Engineer (Faculty)				
97. Harry L. Kent (Tenure)	7/1 - 8/31	50	9	\$ 16,400
Sources of Funds:				
Mechanical Engineering				
Revolving Fund	7/1 - 7/25			
Interagency Contract Funds	7/26 - 8/31			
Concurrent Employment:				
Mechanical Engineering			Academic	
Professor	6/1 - 8/31	50	<u>Rate</u>	<u>Stipend</u>
(RBC# 3821, 3817, 3638)			\$ 16,400	\$ 2,733

ACADEMIC DEVELOPMENT FUNDS

Marketing Administration

Appointment

Social Science Research Associate (Faculty)			Academic	
98. Robert A. Peterson (Non-tenure)	6/1 - 7/15	100	<u>Rate</u>	<u>Stipend</u>
			\$ 14,000	\$ 1,750
Academic Status:				
Assistant Professor				
(Marketing Administration)				
(RBC# 3575)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS</u>				
<u>International Office</u>				
Appointment			Academic	
Coordinator			Rate	Stipend
99. John A. Walter (Tenure)	7/16 - 8/31	50	\$ 16,200	\$ 1,350
Source of Funds:				
Institute of International Education Grant				
Academic Status:				
Professor (English) (RBC# 3659)				
Coordinator				
100. Martin T. Todaro (Tenure)	7/16 - 8/31	100	12,000	2,000
Source of Funds:				
Institute on International Education Exchange Grant				
Academic Status:				
Associate Professor (Speech) (RBC# 3663)				
Associate Professor				
101. Roy R. Krezdorn (Tenure)	7/17 - 8/25	50	12,000	1,000
Source of Funds:				
Institute of International Education Grant				
Academic Status:				
Associate Professor (Electrical Engineering) (RBC# 3658)				
Associate Director				
102. Robert C. Jeffrey (Tenure)	7/16 - 8/31	50	22,000	1,840
Source of Funds:				
Institute of International Education Grant				
Academic Status:				
Professor (Speech) (RBC# 3660)				
Instructor				
103. Ora A. Bennett (Non -tenure)	7/16 - 8/31	100	9,000	1,500
Source of Funds:				
Institute of International Education Grant				
Academic Status:				
Instructor (Speech) (RBC# 3661)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS (Continued)</u>				
<u>Anthropology</u>				
Appointment				
Research Scientist (Faculty)				
104. Ben G. Blount (Non -tenure)	6/1 - 7/15	80	9	\$ 12,500
Source of Funds: Office of Education Grant				
Academic Status: Assistant Professor (Anthropology) (RBC# 3705)				
Reappointment				
Research Scientist (Faculty)			Academic	
105. Henry A. Selby (Tenure)	6/1 - 7/31	100	<u>Rate</u>	<u>Stipend</u>
			\$ 16,500	\$ 2,336
Source of Funds: NSF Grant				
Previous appointment was at the same rate.				
Academic Status: Associate Professor (Anthropology) (RBC# 3769)				
<u>Economics</u>				
Appointment				
Social Science Research Associate (Faculty)				
106. Alfred L. Norman	7/1 - 8/31	50	9	14,000
Source of Funds: NSF Grant (RBC# 3571)				
<u>Psychology</u>				
Appointment				
Social Science Research Associate (Faculty)				
107. Robert L. Helmreich (Tenure)	7/1 - 8/31	100	9	15,600
Source of Funds: NASA Contract				
Academic Status: Associate Professor (Psychology) (RBC# 3582)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS (Continued)</u>				
<u>Astronomy</u>				
Change of Status and Reappointment				
Project Director (Faculty)				
108. Gerard De Vaucouleurs (Tenure)				
Change of Status:				
To:	6/1 - 6/4	33	9	\$ 21,000
	6/25 - 6/30	33		
From:	6/1 - 6/30	100	9	21,000
Reappointment	7/1 - 8/31	100	9	21,000
Source of Funds:				
Jet Propulsion Laboratory Project				
Academic Status:				
Professor (Astronomy)				
(RBC# 3506, 3505, 3568)				
<u>Chemistry</u>				
Reappointment				
Research Scientist (Faculty)				
109. Nathan L. Bauld (Tenure)				
	8/1 - 8/31	100	9	15,500
Source of Funds:				
NSF Grant				
Previous appointment was at the same rate.				
Academic Status:				
Associate Professor (Chemistry)				
(RBC# 3662)				
<u>Computer Sciences</u>				
Appointment				
Research Scientist (Faculty)				
110. Donald I. Good (Non -Tenure)				
	7/1 - 7/31	100	9	13,500
Source of Funds:				
NSF Grant				
Academic Status:				
Assistant Professor (Computer Sciences)				
(RBC# 3636)				
<u>Computer Sciences and Computation Center</u>				
Appointment				
Research Scientist (Faculty)				
111. James C. Browne (Tenure)				
Computation Center - Revolving Fund Account	6/1 - 6/30	100	9	22,000
Computer Sciences - NSF Grant Funds	7/1 - 8/31	100	9	22,000
Academic Status:				
Professor (Computer Science and Physics)				
(RBC# 3676, 3670, 3500, 3428)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS (Continued)</u>				
<u>Geological Sciences</u>				
Appointment				
Principal Investigator (Faculty) 112. Stephen E. Clabaugh (Tenure)	7/1 - 7/31	100	9	\$ 22,500
Source of Funds: NASA Contract				
Academic Status: Professor (Geological Sciences) (RBC# 3501)				
Principal Investigator (Faculty) 113. Ralph O. Kehle (Tenure)	7/14 - 7/31	50	9	15,500
Source of Funds: AAPG Grant				
Academic Status: Associate Professor (Geological Sciences) (RBC# 3580)				
Co-Principal Investigator (Faculty) 114. Leon E. Long (Tenure)	7/1 - 7/31	100	9	16,000
Source of Funds: NSF Grant				
Academic Status: Associate Professor (Geological Sciences) (RBC# 3495)				
<u>Mathematics</u>				
Appointment				
Research Scientist (Faculty) 115. R. H. Bing (Non-Tenure)	6/15 - 8/15	100		
Source of Funds: U. S. Army Contract				
Academic Status: Visiting Professor (Mathematics) (RBC# 3382, 3483)				
<u>Microbiology</u>				
Reappointment				
Research Scientist (Faculty) 116. James R. Walker (Tenure)	6/1 - 8/31	100	12	24,417
Source of Funds: USPHS Career Development Award				
To adjust the reappointment of Dr. Walker to reflect the salary rate effective with the renewal of his Career Development Award grant. This grant is included in the June 9, 1972 Board Minutes.				
Academic Status: Associate Professor (Microbiology) (RBC# 3835)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS (Continued)</u>				
<u>Physics</u>				
Appointment				
Research Scientist (Faculty)				
117. J. David Gavenda (Tenure)	8/1 - 8/31	100	9	\$ 19,000
Source of Funds: NSF Grant				
Academic Status: Professor (Physics) (RBC# 3612)				
Research Scientist (Faculty)				
118. Peter R. Antoniewicz (Tenure)	8/1 - 8/31	100	9	13,500
Source of Funds: NSF Grant				
Academic Status: Associate Professor (Physics) (RBC# 3603)				
<u>Zoology</u>				
Appointment				
Project Director				
119. Burke H. Judd (Tenure)	7/16 - 8/31	100	9	19,000
Source of Funds: NSF Grant				
Academic Status: Professor (Zoology) (RBC# 3510)				
Research Scientist (Faculty)				
120. William H. Henneman (Non Tenure)	6/1 - 7/31	25	9	13,000
	8/1 - 8/31	100	9	13,000
Source of Funds: NSF Grant				
Concurrent Employment: Computer Sciences				
Assistant Professor	6/1 - 7/31	75	<u>Academic Rate</u> \$ 13,000	<u>Stipend</u> \$ 2,166
(RBC# 3691, 3707)				
Reappointment				
Project Director (Faculty)				
121. Crodowaldo Pavan (Tenure)	8/1 - 8/31	100	9	30,500
Source of Funds: USPHS Grant				
Previous appointment was at the same rate.				
Academic Status: Professor (Zoology) (RBC# 3689)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS (Continued)</u>				
<u>Management</u>				
Change of Status and Reappointment				
Social Science Research				
Associate (Faculty)				
122. Kenneth E. Knight (Tenure)				
Change of Status:				
To:	6/1 - 7/15	100	Academic Rate \$ 16,000	Stipend \$ 2,667
From:	6/1 - 7/15	100	16,000	2,000
Sources of Funds:				
Academic Development Funds (75%)				
and U. S. Department of				
Commerce Funds (25%)				
Reappointment:				
U. S. Department of Commerce Funds	7/16 - 8/31	100	16,000	2,667
Academic Status:				
Associate Professor				
(Management)				
(RBC# 3631, 3611, 3637)				
<u>Curriculum and Instruction</u>				
Reappointment				
Assistant Professor				
123. Jo Ann K. Bussey (Non Tenure)	7/16 - 8/31	100	Full-time Salary No. Mos. 9	Rate \$ 10,000
Source of Funds:				
Office of Education -				
Teacher Corps Program Grant				
Previous appointment was at				
the same rate.				
(RBC# 3502)				
Resignation				
Director, Teacher Corps (Instructor)				
124. Remigio L. Garcia	6/1 - 8/31	100	12	18,000
Date of Resignation				
7/21/72				
(RBC# 3732)				
<u>Educational Administration</u>				
Appointment				
Professor				
125. Benjamin M. Harris (Tenure)	7/16 - 8/31	50	9	18,000
Source of Funds:				
Office of Education Grant				
(RBC# 3509)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS (Continued)</u>				
<u>Special Education</u>				
Reappointment				
Staff Training Program Director				
126. Ernest A. Gotts (Non Tenure)	7/1 - 8/31	100	9	\$ 12,500
Source of Funds: Office of Education Contract for Staff Training of Exemplary Early Childhood Centers for Handicapped Children				
Previous appointment was at the same rate.				
Academic Status: Assistant Professor (Special Education) (RBC# 3508)				
Associate Staff Training Program Director				
127. Nasim Dil (Non Tenure)	7/1 - 8/31	100	9	12,000
Source of Funds: Office of Education Contract for Staff Training of Exemplary Early Childhood Centers for Handicapped Children				
Previous appointments were at the same rate.				
Academic Status: Assistant Professor (Special Education) (RBC# 3584)				
<u>Chemical Engineering</u>				
Appointment				
Research Engineer (Faculty)				
128. Robert S. Schechter (Tenure)	8/1 - 8/31	100	9	20,300
Source of Funds: NSF Grant				
Academic Status: Professor (Chemical Engineering) (RBC# 3730)				
<u>Electrical Engineering</u>				
Appointment				
Research Engineer (Faculty)				
129. William D. Gregg (Tenure)	7/1 - 7/15	100	9	14,000
Source of Funds: NSF Grant				
Academic Status: Associate Professor (Electrical Engineering) (RBC# 3583)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS</u>				
<u>Electrical Engineering (Continued)</u>				
Appointment				
Research Engineer (Faculty)				
130. Donald G. Swanson (Tenure)	7/1 - 8/31	100	9	\$ 16,300
Source of Funds: Atomic Energy Commission Contract				
Academic Status: Associate Professor (Electrical Engineering) (RBC# 3586)				
<u>Petroleum Engineering</u>				
Appointment				
Research Engineer (Faculty)				
131. Augusto L. Podio (Non Tenure)	7/16 - 8/31	100	9	12,900
Source of Funds: U. S. Department of Interior Contract				
Academic Status: Assistant Professor (Petroleum Engineering) (RBC# 3605)				
Reappointment and Remove from Budget				
Project Director				
132. Frank W. Jessen (Tenure)				
Reappointment:	7/1 - 7/15	100	9	18,200
Source of Funds: Union Carbide Subcontract				
Previous appointment was at the same rate.				
Academic Status: Professor (Petroleum Engineering)				
Remove from Budget: Dr. Jessen died July 15, 1972. (RBC# 3390, 3569)				
<u>Graduate School of Social Work</u>				
Appointment				
Lecturer and Associate Director of Institute				
133. James C. Stewart (Non Tenure)	7/17 - 8/31	100	12	20,000
Source of Funds: Regional Sociological and Health Research Institute (Contract Funds) (RBC# 3687)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS</u>				
<u>Graduate School of Social Work (Continued)</u>				
Appointment				
Associate Professor				
134. Chester L. Chiles (Tenure)	7/27 - 8/31	100	9	\$ 15,300
Source of Funds:				
USPHS Grant - Narcotic Addiction-Drug Abuse (RBC# 3727)				
Reappointment				
Assistant Professor				
135. Juan Armendariz (Non-Tenure)	6/1 - 8/31	100	9	12,750
Source of Funds:				
USPHS Grant				
Previous appointment was at the same rate. (RBC# 3094, 3585)				
<u>LBJ School of Public Affairs</u>				
Appointment				
Director of Publications				
136. Robert C. Rooney	8/1 - 8/31	100	12	20,000
Source of Funds:				
Ford Foundation Grant (RBC# 3734)				
<u>Cell Research Institute</u>				
Appointment				
Director (Faculty)				
137. W. Gordon Whaley (Tenure)				
NSF Grant Funds	7/1 - 7/31	100	9	31,000
Current Restricted - Faith Foundation Grant Funds	8/1 - 8/31	100	9	31,000
Academic Status:				
Professor (Botany) (RBC# 3394, 3604)				
<u>Center for Communication Research</u>				
Appointment				
Social Science Research				
Associate (Faculty)				
138. Jack L. Whitehead (Non-Tenure)	6/22 - 7/15	100	9	13,000
Source of Funds:				
Education Service Center, Region XIII Contract				
Academic Status:				
Assistant Professor (Speech) (RBC# 3005, 3588)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS</u>				
<u>Center for Highway Research</u>				
Appointment				
Research Engineer (Faculty)				
139. James R. Holmes (Tenure)	7/1 - 7/15	100	9	\$ 11,700
Academic Status:				
Associate Professor				
(Mechanical Engineering -				
Engineering Graphics Division)				
(RBC# 3701)				
<u>Center for Particle Theory</u>				
Reappointment				
Research Scientist (Faculty)				
140. Austin M. Gleeson (Tenure)	7/1 - 7/15	100	9	15,800
	7/16 - 8/31	50	9	15,800
Source of Funds:				
Atomic Energy Commission Contract				
Previous appointment was at the same rate.				
Academic Status:				
Associate Professor				
(Physics)				
(RBC# 3708, 3709)				
Research Scientist (Faculty)				
141. Ronald G. Parsons (Non-Tenure)	7/16 - 7/31	100	9	12,000
Source of Funds:				
Atomic Energy Commission Contract				
Previous appointment was at the same rate.				
Academic Status:				
Assistant Professor				
(Physics)				
(RBC# 3690)				
<u>Center for Plasma Physics and Thermonuclear Research</u>				
Leave of Absence				
Research Scientist				
142. Henry V. Wong	1/1 - 8/31	LWOP	12	(18,600)
(RBC# 3710)				
<u>Center for the Study of Human Resources</u>				
Appointment				
Project Director				
143. F. Ray Marshall (Tenure)	8/1 - 8/31	100		
			Academic Rate	Stipend
			\$ 32,500	\$ 3,600
Source of Funds:				
U. S. Department of Labor Contract				
Academic Status:				
Professor				
(Economics)				
(RBC# 3576)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS (Continued)</u>				
<u>Computer-Based Education Project</u>				
Appointment			Academic	
Assistant Professor			<u>Rate</u>	<u>Stipend</u>
144. Harriette A. Guldman (Non-Tenure)	6/15 - 8/15	37.5	\$ 12,000	\$ 1,000
Source of Funds: NSF Grant				
Concurrent Employment:				
Home Economics				
Assistant Professor	6/15 - 8/15	37.5	12,000	1,000
(RBC# 3770)				
Instructor				
145. Gayle C. M. Browne (Non-Tenure)	6/15 - 7/31	17	10,500	300
Source of Funds: NSF Grant				
Concurrent Employment:				
Home Economics				
Lecturer	6/15 - 7/31	17	10,500	300
(RBC# 3762)				
<u>Bureau of Economic Geology</u>				
Change of Status			<u>Full-time Salary</u>	
146. Dwight E. Deal			<u>No.</u>	<u>Rate</u>
To: Research Scientist			<u>Mos.</u>	
Associate V	7/10 - 8/2	100	12	\$ 15,000
Consultant	8/3 - 8/31	100	12	15,000
From: Research Scientist				
Associate V	7/10 - 8/31	100	12	15,000
Source of Funds: Interagency Contract Funds (RBC# 3723)				
<u>Center for Research in Water Resources</u>				
Appointment				
Research Engineer Associate (Faculty)				
147. Jared E. Hazleton (Tenure)	7/16 - 8/31	100	9	18,200
Source of Funds: NSF Grant				
Academic Status:				
Associate Professor				
(Economics)				
(RBC# 3608)				
Research Engineer (Faculty)				
148. E. Gus Fruh (Tenure)	7/16 - 8/31	100	9	15,100
Source of Funds: Interagency Contract				
Academic Status:				
Associate Professor				
(Civil Engineering)				
(RBC# 3671)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS (Continued)</u>				
<u>Electronics Research Center</u>				
Change of Status				
Research Engineer (Faculty)				
149. William W. Robertson (Tenure)			Academic	
			<u>Rate</u>	<u>Stipend</u>
To:	7/16 - 8/31	100	\$ 19,500	\$ 3,285
From:	7/16 - 8/31	100	19,500	3,250
Source of Funds:				
U. S. Air Force Contract				
Academic Status:				
Professor				
(Physics)				
(RBC# 3675)				
<u>Molecular Physics Group</u>				
Appointment				
Principal Investigator				
150. Frederick A. Matsen (Tenure)	7/1 - 8/31	100	9	\$ 28,500
Source of Funds:				
NSF Grant				
Academic Status:				
Professor				
(Chemistry) and				
(Physics)				
(RBC# 3609)				
<u>Port Aransas Marine Science Institute</u>				
Appointment				
Research Scientist (Faculty)				
151. Carl H. Oppenheimer (Tenure)	8/1 - 8/31	100	9	29,000
Source of Funds:				
Interagency Contract -				
Galveston Bay Project				
Academic Status:				
Professor				
(Microbiology)				
(RBC# 3777)				
<u>Science Education Center and</u>				
<u>Geological Sciences</u>				
Appointment				
Research Scientist (Faculty)				
152. Robert E. Boyer (Tenure)				
Science Education Center -				
NSF Grant Funds	6/1 - 7/15	100	9	21,500
Geological Sciences -				
NSF Grant Funds	7/17 - 8/11	100	9	21,500
Academic Status:				
Professor				
(Geological Sciences)				
(RBC# 3610, 3180)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>SPONSORED PROJECTS</u>				
<u>Science Education Center and Geological Sciences (Continued)</u>				
Appointment				
153. Rolland B. Bartholomew (Non-Tenure)			Academic	
Science Education Center			<u>Rate</u>	<u>Stipend</u>
Assistant Professor	6/1 - 7/15	100	\$ 13,500	\$ 2,250
			<u>Full-time Salary</u>	
			<u>No.</u>	
Research Scientist (Faculty)	8/12 - 8/31	100	<u>Mos.</u>	<u>Rate</u>
			9	\$ 13,500
Geological Sciences				
Research Scientist (Faculty)	7/17 - 8/11	100	9	13,500
Sources of Funds:				
NSF Grants				
Academic Status:				
Assistant Professor				
(Geological Sciences) and				
(Curriculum and Instruction)				
(RBC# 3607, 3775, 3101)				
<u>Extension Teaching and Field Service Bureau</u>				
Reappointment				
Assistant Director				
154. Percy A. Morehouse	7/1 - 8/31	100	12	14,000
Source of Funds:				
Office of Education Contract				
Previous appointment was				
at the same rate.				
(RBC# 3570)				
<u>AGENCY FUNDS</u>				
<u>Bureau of Public School Service</u>				
Appointment				
Director of Drama for the Interscholastic League				
155. Willis L. Murray	8/1 - 8/31	100	12	12,000
Source of Funds:				
General Fees Account -				
Interscholastic League				
Funds				
(RBC# 3577)				
<u>AUXILIARY ENTERPRISES</u>				
<u>Physical Instruction</u>				
Appointment				
Associate Professor			Academic	
156. Carolyn Hewatt (Tenure)	7/16 - 8/31	100	<u>Rate</u>	<u>Stipend</u>
			\$ 11,500	\$ 1,150
Source of Funds:				
Non-student Summer Program Fees				
(RBC# 3700)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>AUXILIARY ENTERPRISES</u>				
<u>Physical Instruction (Continued)</u>				
Appointment			Academic	
Assistant Professor			Rate	
157. Jo E. Spearman (Non-Tenure)	7/16 - 8/31	100	\$ 10,000	\$ 950
Source of Funds:				
Non-student Summer Program Fees (RBC# 3698)				
Instructor				
158. Barbara B. Moffitt	7/16 - 7/31	50	9,100	200
	8/1 - 8/31	100	9,100	1,000
Source of Funds:				
Non-student Summer Program Fees (RBC# 3758, 3759)				
Reappointment				
Instructor				
159. James B. Lee (Non-Tenure)	7/16 - 8/31	100	9,000	1,500
Source of Funds:				
Non-student Summer Program Fees				
Previous appointment was at the same rate. (RBC# 3699)				
Associate Professor				
160. Joe C. Bowling (Tenure)	7/16 - 8/31	100	11,000	1,833
Source of Funds:				
Non-student Summer Program Fees				
Previous appointment was at the same rate. (RBC# 3704)				

Gymnasium Store

Transfer between Dissimilar
Appropriations

161. Amount of Transfer - \$383

To: Salaries

From: Allocation for Budget Adjustments

To provide for a replacement of an employee absent on sick leave.
(RBC# 3368)

Intramural Sports - Women

Transfer between Dissimilar
Appropriations

162. Amount of Transfer - \$600

To: Other Operating Expenses

From: Wages

To provide funds for the purchase of ten tennis nets for courts at
51st and Guadalupe Streets.
(RBC# 3477)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>AUXILIARY ENTERPRISES</u>				
<u>Special Concessions</u>				
Transfer of Funds				
163. Amount of Transfer - \$2,500				
To: Emergency Scholarships				
From: Unallocated Projects				
				To provide additional scholarship funds. (RBC# 3745)
<u>Student Government - Office of the Students' Attorney</u>				
Transfer between Dissimilar Appropriations				
164. Amount of Transfer - \$609				
To: Other Operating Expenses				
From: Salaries				
				Reallocation of available funds to provide for increased operating expenses including Unemployment Compensation Insurance payments. (RBC# 3443)
<u>Student Health Center</u>				
Appointment				
Physician, General Medicine				
165. William S. Thompson (RBC# 3733)	8/1 - 8/31	100	12	\$ 21,000
Physician, Specialist, Orthopedics				
166. Gary N. Pamplin (RBC# 3598)	7/1 - 8/31	33	12	30,000
Leave of Absence				
Physician, Specialist, Gynecology				
167. J. William Hearn	3/1 - 8/31	50	12	24,000
Term of Leave (RBC# 3600)	8/16 - 8/28			
Physician, General Medicine				
168. Leonard D. McLin	1/1 - 8/31	100	12	21,000
Term of Leave (RBC# 3516, 3752)	7/1 - 8/6			
Resignation				
Physician, Specialist, Gynecology				
169. Gary R. Jones	11/1 - 8/31	12.5	12	24,000
Date of Resignation (RBC# 2096)	2/29/72			

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

AUXILIARY ENTERPRISES (Continued)The University of Texas Press

Transfer of Funds

170. Amount of Transfer - \$5,000

To: Texas Studies in Literature and Language - Other Expenses
(Publication Costs)

From: Texas Studies in Literature and Language - Earned Income

Part of the receipts from additional subscriptions and publications
was needed to defray publishing expenses.
(RBC# 3371)

CURRENT RESTRICTED FUNDSChemistry

Appointment

Research Scientist (Faculty)

171. Charles G. Wade (Non-Tenure)

Current Restricted - Welch

Foundation Grant	6/1 - 6/30	100	9	\$ 11,000
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Government Contract - NIH Grant	8/1 - 8/31	100	9	11,000
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Academic Status:

Assistant Professor

(Chemistry)

(RBC# 3589, 3590)

Research Scientist (Faculty)

172. Philip L. Stotter (Non-Tenure) 8/1 - 8/31 100 9 11,000

Source of Funds:

Current Restricted -

Robert A. Welch Foundation Grant

Academic Status:

Assistant Professor

(Chemistry)

(RBC# 3763)

Change of Status

Research Scientist (Faculty)

173. S. E. Webber (Tenure)

To:	8/1 - 8/31	100	Academic Rate \$ 12,200	Stipend \$ 1,250
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From:	8/1 - 8/31	100	12,200	1,356
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Source of Funds:

Current Restricted -

Robert A. Welch Foundation Grant

Academic Status:

Associate Professor

(Chemistry)

(RBC# 3731)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>
<u>CURRENT RESTRICTED FUNDS (Continued)</u>				
<u>Journalism</u>				
Appointment				
Professor and Chairman				
174. Norris G. Davis (Tenure)	7/16 - 8/31	50	9	\$ 21,000
Source of Funds:				
Paul J. Thompson - DeWitt C. Reddick Society (RBC# 3504)				
<u>Management</u>				
Appointment				
Social Science Research Associate (Faculty)				
175. Michael J. Maggard (Non-Tenure)	7/16 - 8/31	100	9	14,750
Source of Funds:				
Current Restricted - Petroleum Land Management Fund				
Academic Status:				
Assistant Professor (Management) (RBC# 3574)				
<u>Chemical Engineering</u>				
Appointment				
Research Engineer (Faculty)				
176. Gary R. Dowling (Non-Tenure)	7/16 - 8/31	25	9	10,000
Source of Funds:				
Current Restricted - Chemical Engineering - Industrial Grants-Variou Donors				
Academic Status:				
Assistant Professor (Chemical Engineering) (RBC# 3633)				
<u>Civil Engineering - Environmental Health Engineering</u>				
Appointment				
Research Engineer (Faculty)				
177. Michael J. Humenick (Tenure)	7/1 - 8/31	50	9	14,000
Source of Funds:				
Bureau of Engineering Research Current Restricted Funds - Texas Electric Service Company				
Academic Status:				
Associate Professor (Civil Engineering) (RBC# 3581)				

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

CURRENT RESTRICTED FUNDS (Continued)Cell Research Institute

Transfer of Funds

178. Amount of Transfer - \$15,000

To: Cell Research Institute

From: Faith Foundation Research Grant

For support of research in the Cell Research Institute.
(RBC# 3374, 3375)

CBA Foundation

Appointment

Social Science Research

Associate (Faculty)

Academic

RateStipend

179. Rudolph C. Doenges (Tenure)

6/1 - 7/15

100

\$ 16,300

\$ 600

Source of Funds:

Current Restricted - CBA Foundation

Anonymous Gifts-General Purposes

Academic Status:

Associate Professor

(Finance)

(RBC# 3507)

Engineering Foundation

Transfer of Funds

180. Amount of Transfer - \$30,000

To: E. P. Schoch Professorship (\$10,000)

T. U. Taylor Professorship (\$10,000)

W. R. Woolrich Professorship (\$10,000)

From: Engineering Foundation -

Fellowships (\$20,000)

Scholarships (\$10,000)

To fund the 1971-72 additions to these Professorships in accordance with the terms of the agreement when the Professorships were accepted by the Board of Regents.

(RBC# 3449, 3450, 3451)

Fine Arts Foundation

Transfer of Funds

181. Amount of Transfer - \$1,100

To: Drama - Faculty Travel Fund

From: Drama - Various Donors

To allocate additional funds needed for faculty travel expenses.

(RBC# 3372)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Full-time Salary</u>	
			<u>No. Mos.</u>	<u>Rate</u>

CURRENT RESTRICTED FUNDSFine Arts Foundation (Continued)

Transfer of Funds

182. Amount of Transfer - \$5,100

To: Music - Official Entertainment (\$600)
 - Touring and Travel (\$4,500)

From: Music - Contests and Camps

Reallocation of funds within the Music Department portion of the
 Fine Arts Foundation.
 (RBC# 3803, 3807)

Hogg Foundation for Mental Health

Appointment

Assistant Professor

183. Jon D. Swartz (Non-Tenure) 7/1 - 8/31 100 9 \$ 12,450

Sources of Funds:

Current Restricted - Spencer
Fellowship Grant7/1 - 7/31 100
8/1 - 8/31 37.5

USPHS Contract Funds

8/1 - 8/31 62.5

Academic Status:

Assistant Professor
(Educational Psychology)
(RBC# 3692, 3693, 3587)Institute for Biomedical Research

Appointment

Research Scientist (Faculty)

184. Karl Folkers (Tenure) 7/1 - 8/31 50 9 34,300

Source of Funds:

Merck and Co., Inc. Grant for
Research in Pharmacy

Academic Status:

Professor
(Chemistry) and (Pharmacy)
(RBC# 3494)PLANT FUNDSTexas Student Publications

Transfer of Funds

185. Amount of Transfer - \$25,000

To: TSP Printing Equipment Allotment Account

From: TSP Facilities and Contingencies Fund

To provide additional funds to cover the increases in equipment estimates
 (for presses, photographic equipment and conveyors, and additional
 typewriters) for TSP Building.
 (RBC# 2848)

1972 SUMMER SESSION BUDGET AMENDMENTS

First Term (6 weeks): June 1, 1972 - July 15, 1972

Second Term (6 weeks): July 16, 1972 - August 31, 1972

9 Weeks Courses: June 1, 1972 - July 31, 1972

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
<u>SCHOOL OF ARCHITECTURE</u>				
Appointment				
Assistant Professor				
1. Gerlinde Leiding (Non-tenure) (RBC# 3632)	7/16 - 8/31	100	\$ 11,300	\$ 1,883

COLLEGE OF HUMANITIESFrench and Italian

Transfer of Funds

2. Amount of Transfer - \$1,033

To: French and Italian - Teaching Assistants

From: Office of the Provost - Summer Reserve

Increased enrollment in Italian 407 required the opening of an additional section and the employment of a Teaching Assistant to staff it.
(RBC# 3615)

Germanic Languages

Transfer of Funds

3. Amount of Transfer - \$757

To: Germanic Languages - Teaching Assistants

From: Office of the Provost - Summer Reserve

The opening of an additional section of German 407 following registration required the use of an additional Teaching Assistant.
(RBC# 3617)

Oriental and AfricanLanguages and Literatures

Change of Status

Assistant Professor

4. Yehuda Shamir (Non-tenure)

To:	6/1 - 7/15	---	10,800	---
	7/16 - 8/31	100	10,800	1,800
From:	6/1 - 7/15	100	10,800	1,800

(RBC# 3561, 3564)

Transfer of Funds

5. Amount of Transfer - \$916

To: Oriental and African Languages and Literatures - Teaching Assistants

From: Office of the Provost - Summer Reserve

Funds were used for an additional Teaching Assistant needed due to the opening of a third section of Swahili 612 following Second Term registration.
(RBC# 3475)

<u>Item, Department, Title, Name</u>	<u>Period Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
<u>COLLEGE OF HUMANITIES (Continued)</u>				
<u>Spanish and Portuguese</u>				
Transfer of Funds				
6. Amount of Transfer - \$1,766				
To: Spanish and Portuguese - Teaching Assistants				
From: Office of the Provost - Summer Reserve				
Increased enrollment in Spanish 407 required the opening of additional sections and hiring of Teaching Assistants to staff these sections. (RBC# 3524, 3523)				
<u>COLLEGE OF NATURAL SCIENCES</u>				
<u>Astronomy</u>				
Appointment				
Professor				
7. Gerard De Vaucouleurs (Tenure) (RBC# 3410)	6/5 - 6/24	100	\$ 21,000	\$ 1,500
<u>Geological Sciences</u>				
Appointment				
Lecturer				
8. Joseph H. McGowen (Non-tenure) (RBC# 3761)	7/24 - 8/11	100	10,800	1,350
Change of Status				
Professor				
9. Robert E. Boyer (Tenure)				
To:	8/12 - 8/31	100	21,500	2,250
From: (RBC# 3201)	7/31 - 8/19	100	21,500	2,250
Professor				
10. Alan J. Scott (Tenure)				
To:	7/24 - 8/11	100	18,000	2,250
From: (RBC# 3753)	6/1 - 6/23	100	18,000	2,250
<u>Home Economics</u>				
Appointment				
Lecturer				
11. Gayle C. M. Browne (Non-tenure)	6/15 - 7/31	17	10,500	300
Source of Funds:				
Departmental Faculty Salaries and transfers from Unallocated Summer Session and the Dean's Reserve				
Concurrent Employment:				
Computer-Based Education Project Instructor				
(RBC# 3763, 3529, 3348)	6/15 - 7/31	17	10,500	300

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
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COLLEGE OF NATURAL SCIENCESHome Economics (Continued)

Appointment

Assistant Professor

12. Harriette A. Guildmann (Non-tenure) 6/15 - 8/15 37.5 \$ 12,000 \$ 1,000

Sources of Funds:

Departmental Faculty Salaries
and transfers from Unallocated
Summer Session and from the
Dean's Reserve

Concurrent Employment:

Computer-Based Education Project

Assistant Professor 6/15 - 8/15 37.5 12,000 1,000
(RBC# 3529, 3771, 3348)

Mathematics

Transfer of Funds

13. Amount of Transfer - \$1,027

To: Mathematics - Teaching Assistants

From: Office of the Provost - Summer Reserve

Increased enrollment required the opening of sections and hiring of
additional Teaching Assistants to staff these sections.
(RBC# 3525)

Microbiology

Resignation

Professor

14. Carl H. Oppenheimer (Tenure) 6/1 - 8/31 100 29,000 6,000

Remove from Summer Session Budget 7/31/72
(RBC# 3776)

Instructor

15. Melvin N. Guentzel (Non-tenure) 6/1 - 8/31 50 9,000 1,500

Remove from Summer Session Budget.
(RBC# 3767)

COLLEGE OF SOCIAL AND
BEHAVIORAL SCIENCESEconomics

Transfer of Funds

16. Amount of Transfer - \$722

To: Economics - Faculty Salaries

From: Provost's Reserve (\$361)
Unallocated Summer Session (\$361)

Funds were used to provide partial support for the salary of a faculty
member for the Summer Session.
(RBC# 3736, 3715)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
<u>COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES (Continued)</u>				
<u>Geography</u>				
Appointment				
Visiting Professor				
17. Reginald G. Gollledge (Non-tenure) (RBC# 3559)	7/16 - 8/31	100	\$ 19,310	\$ 1,916
Change of Status				
Instructor				
18. John C. Archer (Non-tenure)				
To:	6/1 - 7/15	100	11,000	1,833
From: (RBC# 3565)	7/16 - 8/31	100	11,000	1,833
<u>Psychology</u>				
Transfer of Funds				
19. Amount of Transfer - \$1,000				
To: Faculty Salaries - Summer Session				
From: Teaching Assistants - Long Session				
Funds were used for an instructor for GS 321 for the Summer Session. (RBC# 3235)				
<u>DIVISION OF GENERAL AND COMPARATIVE STUDIES</u>				
<u>Asian Studies - Summer Program in South Asian Studies</u>				
Appointment				
Visiting Professor				
19. C. D. Narasimhaiah (Non-tenure)	6/1 - 8/31	100	18,000	3,000
Source of Funds:				
Transfer from Division of General and Comparative Studies - Dean's Reserve (RBC# 3558, 2618)				
Transfer of Funds				
20. Amount of Transfer - \$4,272				
To: Asian Studies - Summer Program in South Asian Studies - Faculty Salaries				
From: Division of General and Comparative Studies - Dean's Reserve				
To provide for the summer stipends of two faculty members teaching in the Summer Program. (RBC# 2618)				
<u>COLLEGE OF BUSINESS ADMINISTRATION</u>				
<u>Accounting</u>				
Appointment				
Assistant Instructor				
21. Don W. Vickrey (Non-tenure) (RBC# 3706)	7/16 - 8/31	100	9,000	1,500

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
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COLLEGE OF BUSINESS ADMINISTRATION
(Continued)

Finance

Change of Status

Associate Professor

22. Robert B. Williams (Tenure) 6/1 - 7/15 100 \$ 16,700 \$ 2,783

Change Title, Only:

To: Associate Professor
and Acting Chairman

From: Associate Professor
(RBC# 3563)

General Business

Appointment

Assistant Professor

23. John Allison (Non-tenure) 7/16 - 8/31 100 12,500 2,083
(RBC# 3626)

Resignation

Professor

24. F. Lanier Cox (Tenure) 7/16 - 8/31 100 25,300 3,000

Remove from Summer Session Budget.
(RBC# 3627)

SCHOOL OF COMMUNICATION

Journalism

Resignation

Professor

25. Alan Scott (Tenure) 7/16 - 8/31 100 17,500 2,916

Remove from Summer Session Budget.
(RBC# 3566)

COLLEGE OF EDUCATION

Physical and Health Education

Transfer of Funds

26. Amount of Transfer - \$1,133

To: Physical and Health Education - Teaching Assistants

From: Dean's Reserve

Funds were needed for an additional Teaching Assistant to staff a section of P.Ed. 350E opened following registration for the Second Term, Summer Session.

(RBC# 3522)

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
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COLLEGE OF ENGINEERING
Aerospace Engineering and Engineering
Mechanics - Engineering Mechanics
Division

Interdepartmental Transfer

27. Amount of Transfer - \$575

To: Aerospace Engineering and Engineering Mechanics - Engineering Mechanics
Division - Faculty Salaries

From: Aerospace Engineering and Engineering Mechanics - Faculty Salaries

Reallocation of Faculty Salaries funds within this College to provide
support where needed.
(RBC# 3344)

Chemical Engineering

Change of Status

Professor

28. John J. McKetta (Tenure)

To: 6/1 - 7/15 100 \$ 34,000 \$ 3,000

From: 7/16 - 8/31 100 34,000 3,000
(RBC# 3562)
Civil Engineering - Architectural
Engineering Division

Change of Status

Associate Professor

29. David W. Fowler (Tenure)

To: 6/1 - 8/31 37.5 14,200 1,774

From: 6/1 - 8/31 50 14,200 2,366

Concurrent Employment:

Center for Highway Research
and Bureau of Engineering
ResearchResearch Engineer (Faculty)
(RBC# 3415)

6/1 - 8/31

62.5

Full-time Salary

No.

Mos.

9

Rate

\$ 14,200

Mechanical Engineering

Transfer of Funds

30. Amount of Transfer - \$2,651

To: Mechanical Engineering - Faculty Salaries

From: Unallocated Summer Session

To provide the departmental part of stipends of faculty members engaged
in the Computer-Based Education Project during the summer.
(RBC# 2505)

COLLEGE OF FINE ARTSArt

Appointment

Assistant Professor

31. David L. Deming (Non-tenure)
(RBC# 3625)

7/16 - 8/31

100

10,000

1,500

<u>Item, Department, Title, Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
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COLLEGE OF FINE ARTS (Continued)Music

Appointment

Instructor

32. Morton M. Stine (Non-tenure) (RBC# 3718)	7/16 - 8/31	27.5	\$ 9,000	\$ 412
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Transfer between Dissimilar

Appropriations

33. Amount of Transfer - \$116

To: Teaching Assistants (\$91)
Faculty Salaries (\$25)

From: Wages

Funds available in the Department's wages account were needed for teaching personnel during the Summer Session.
(RBC# 3614, 3616)

GRADUATE SCHOOL OF LIBRARY SCIENCE

Appointment

Lecturer

34. Julie H. Bichteler (Non-tenure) (RBC# 3560)	7/16 - 8/31	100	10,000	1,667
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1971-72 BUDGET
SALARY RATE INCREASES OF \$2,000 OR MORE INVOLVING APPOINTMENTS
TO A DIFFERENT POSITION AND NEW AND DIFFERENT DUTIES

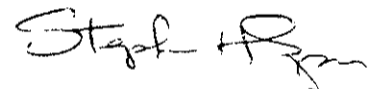
Source of Funds: Departmental Salaries unless otherwise specified.

Item No.	Explanation	Present Status	Proposed Status	Effective Dates
1.	Henry Armus, Jr. LBJ School of Public Affairs	Computer Operator I	Computer Programmer I	
	Salary Rate (RBC# 3679)	\$ 6,780	\$ 9,600	8/1/72
2.	Clarence P. Cain Electrical Engineering Research Laboratory	Research Engineer Assistant II	Research Engineer Associate V	
	Salary Rate	\$ 7,440	\$ 15,900	7/15/72
	Source of Funds: (RBC# 3695)	Government Contract - Payroll Clearing Account		
3.	Richard R. Collier Laboratory for Computer-Assisted Instruction	Social Science Research Associate I		
	Measurement and Evaluation Center		Social Science Research Associate II	
	Salary Rate (RBC# 3657)	\$ 5,784	\$ 7,800	7/15/72
4.	Richard D. DeGroot Office of the Dean, College of Business Administration	Clerk		
	Center for Economic Development		Technical Staff Assistant III	
	Salary Rate	\$ 3,504	\$ 6,168	8/1/72
	Source of Funds: U. S. Department of Labor Grant (RBC# 3816)			
5.	Karen D. R. Dietz Office of the Dean of Students	Senior Secretary		
	Bureau of Engineering Teaching		Social Science Research Associate I	
	Salary Rate	\$ 5,268	\$ 7,440	7/1/72
	Source of Funds: Office of the Dean of Engineering - Wages (RBC# 3572)			

Item No.	Explanation	Present Status	Proposed Status	Effective Dates
6.	Carolyn M. Evertson Research and Development Center for Teacher Education	Social Science Research Associate II	Social Science Research Associate V	7/1/72
	Salary Rate	\$ 7,800	\$ 12,000	
	Source of Funds: Office of Education Contract (RBC# 3573)			
7.	Rodolfo R. Garza Office of the Dean of Students	Social Science Research Associate I	Student Development Specialist II	8/1/72
	Salary Rate (RBC# 3678)	\$ 5,784	\$ 8,880	
8.	Barry N. Moore Physics	Research Scientist Assistant II		
	Bureau of Engineering Research		Research Scientist Associate II	
	Salary Rate	\$ 6,780	\$ 10,920	8/1/72
	Source of Funds: Texas Atomic Energy Research Foundation Funds (RBC# 3819)			
9.	John P. Pedracine College of Engineering Machine Shop	Technical Staff Assistant II		
	Mechanical Engineering		Instrument Maker I	
	Salary Rate (RBC# 3672)	\$ 4,800	\$ 7,440	7/15/72
10.	Andre R. Polome Language Laboratories	Technical Staff Assistant III		
	Linguistics		Humanities Research Associate II	
	Salary Rate	\$ 5,784	\$ 8,160	7/20 - 8/19
	Source of Funds: NSF - University Science Development Program Funds (RBC# 3686)			

Item No.	Explanation	Present Status	Proposed Status	Effective Dates
11.	Stephen A. Underwood (Non-tenure) Electronics Research Center	Research Engineer Assistant II (F.T.)		
	Salary Rate	\$ 7,800		
	Electrical Engineering		Assistant Professor ($\frac{1}{2}$ T.)	
	Mathematics and Zoology - USPHS Contract Funds		Research Engineer Faculty ($\frac{1}{2}$ T.)	
	Academic Rate	\$ 5,850 (equiv.)	\$ 12,000	6/1/72
	(RBC# 3697, 3797, 3309)			
12.	Kuo-Hsuing Wang Computation Center and College of Natural Sciences, Office of the Dean	Computer Programmer Assistant		
	Data Processing Division		Computer Programmer I	
	Salary Rate	\$ 6,168	\$ 9,240	7/31/72
	(RBC# 3696)			

Sincerely yours,



Stephen H. Spurr
President

THE UNIVERSITY OF TEXAS AT EL PASO
El Paso, Texas

September 22, 1972

Dr. Charles A. LeMaistre, Chancellor
The University of Texas System
Austin, Texas

The following docket is submitted for your approval and presentation to the Board of Regents at the meeting in Austin on October 20, 1972:

BUSINESS CONTRACT ITEMS

Renewal of the contract with Alpha Graphics, 1021 East 6th. Street, Tucson, Arizona, to operate a manned copying center in the Library for an additional two-year period beginning September 1, 1972, and terminating August 31, 1974. The center is operated primarily for the convenience of students and faculty and they will be charged 5¢ per copy, the same rate as under the old contract. Other services offered include reduction work, binding, transparencies, etc. to be charged for at the same rates as in the old contract. A service bar will continue to be operated by Alpha Graphics with collating, cutting, punching and stapling to be done free of charge. Alpha Graphics will provide the Library 12,000 copies per month under the contract at no charge. The contract provides for the extension of the contract for two years by mutual consent of both parties and for the termination by either party upon thirty days written notice to the other party.

PAY STATION TELEPHONE SERVICE

As provided for an Article V, Sec. 36, Senate Bill No. 1, as passed by the Third Called Session of the Sixty-Second Legislature of the State of Texas, approval is requested for continuance of the present system of pay station telephone service provided at The University of Texas at El Paso by Mountain States Telephone Company, El Paso, Texas. The commission received by the University is fifteen (15) percent of the gross receipts after deducting the Federal tax on long distance calls and is accounted for as State revenue.

TEXTBOOKS AND OTHER MATERIALS PRESCRIBED FOR THE USE OF STUDENTS

I recommend approval for the use during the 1972-73 school year, the following textbooks and other materials written by faculty members:

1. Investments Decisions: A case book by Paul E. Fenlon, Professor of Economics, sold in the Bookstore for \$4.95 per copy with a royalty of 15% to the author.
2. Manual for Students and Cooperating Clinicians for Public School Practicum in Speech Pathology by Madeline Brand, Instructor of Drama and Speech. No charge will be made to students for this manual.

GIFTS

The following gifts have been received by The University of Texas at El Paso. I recommend acceptance and that expressions of thanks and appreciation of the Board be sent the donors by the Secretary. In the case of scholarships where the recipient is designated by the donor, it has been determined that the donor is a public or charitable institution and that the donation does not constitute an evasion of taxes.

<u>Donor</u>	<u>Purpose and Condition</u>	<u>Amount</u>
1. The Farah Corporation Foundation P. O. Box 9519 El Paso, Texas 79985 Mr. Philip A. Rogers	Farah Corporation Foundation Scholarships	\$ 5,750.00
2. * Miners Scholarship & Development Fund State National Bank P. O. Box 1072 El Paso, Texas 79946 Mr. Tom Foster, Vice President	Intercollegiate Athletics	34,400.00

GIFTS

3. * Dr. Charles L. Sonnichsen % Arizona Historical Society 949 East Second Street Tucson, Arizona 85719	Various manuscripts, books papers, journals, and pamphlets for the Library	\$ 6,000.00 (Estimate)
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*No letter of transmittal received from donor.

INTER-AGENCY CONTRACTS

I recommend ratification of the following Interagency Contracts:

1. Interagency Contract No. IAC(72-73)-683, beginning September 1, 1972 and ending August 31, 1973, between the Texas State Department of Health and The University of Texas at El Paso, whereby the University agrees to provide through its Speech and Hearing Center, audiological service, and otological, pediatrics, and psychological examinations, at a cost of \$10.00 for each service or examination. When indicated and authorized, ear molds will be provided at a cost of \$15.00 each. The total amount of the contract shall not exceed \$1,000.00. The contract was approved by the Board of Control on August 25, 1972.
2. Interagency Contract No. IAC(72-73)-692, beginning September 1, 1972 and ending August 31, 1973, between the Texas Highway Department and The University of Texas at El Paso whereby the University will enroll one employee of the Department and furnish tuition, books, and all class material for the Fall Semester, 1972, at a cost not to exceed \$95.00. The contract was approved by the Board of Control on August 28, 1972.

THE UNIVERSITY OF TEXAS AT EL PASO
Federal Contracts and Grants
October 20, 1972

The following contracts, grants and amendments have been negotiated and have been signed by me upon the recommendation of the directors of the projects. I recommend your approval and ratification of the signatures.

1. Delivery Order No. 0033 (DO#1), dated July 31, 1972, to Educational Services Agreement No. DABE34-72-A-0371, whereby the Contracting Officer, Procurement Division, DIO, Fort Sam Houston, Texas 78234 authorizes the enrollment of three students during the Fall, 1972 and Spring and Summer, 1973 sessions for an estimated total obligation of \$3,874.00. The majority of the expenditures from this award will be made in El Paso County.
2. Delivery Order No. 0034 (DO#2), dated August 1, 1972, to Educational Services Agreement No. DABE34-72-A-0371, whereby the Contracting Officer, Procurement Division, DIO, Fort Sam Houston, Texas 78234, authorizes the enrollment of 57 students during the Fall, 1972 and Spring and Summer, 1973 sessions for an estimated total obligation of \$87,003.00. The majority of the expenditures from this award will be made in El Paso County.
3. Delivery Order No. 0073 (DO#3) FY-73, dated August 17, 1972, to Educational Services Agreement No. DABE34-72-A-0371, whereby the Contracting Officer, Procurement Division, DIO, Fort Sam Houston, Texas 78234, authorizes the enrollment of four students during the Fall, 1972 and Spring and Summer, 1973 sessions for an estimated total obligation of \$6,202.00. The majority of the expenditures from this award will be made in El Paso County.
4. Delivery Order No. 0074 (DO#4) FY-73, dated August 17, 1972, to Educational Services Agreement No. DABE34-72-A-0371, whereby the Contracting Officer, Procurement Division, DIO, Building No. 4004, Fort Sam Houston, Texas 78234, authorizes the enrollment of one student during the Fall, 1972 and Spring and Summer, 1973 sessions for an estimated total obligation of \$411.00. The majority of the expenditures from this award will be made in El Paso County.
5. Delivery Order No. 0179 (DO#5) FY-73, dated September 6, 1972, to Educational Services Agreement No. DABE34-72-A-0371, whereby the Contracting Officer, Procurement Division, DIO, Fort Sam Houston, Texas 78234, authorizes the enrollment of one student during the Fall, 1972 and Spring, 1973 semesters for an estimated total obligation of \$224.00. The majority of the expenditures from this award will be made in El Paso County.
6. Modification No. A001, dated August 1, 1972, to Contract No. DAAD07-72-C-0016, whereby the Contracting Officer, Procurement Directorate, STEWS-PR-A, Building 1830, White Sands Missile Range, New Mexico 88002, agrees to extend the term of the contract for 60 days through September 30, 1972 at no additional contract cost. The majority of the expenditures from this award will be made in El Paso County.
7. Order No. DABE32-73-D-0168, dated August 14, 1972, to Basic Agreement No. DABD07-71-A-0002, whereby the Contracting Officer, Procurement Division, DIO, Fort Bliss, Texas 79906, authorizes the enrollment of 12 students for 52 credit hours during the Second Summer Session, 1972 for a total obligation of \$217.50. The majority of expenditures from this award will be made in El Paso County.
8. Basic Agreement No. DAAD07-73-C-0003, dated July 1, 1972, whereby the Contracting Officer, Procurement Division, Building 1830, White Sands Missile Range, New Mexico 88002, provides for instruction during the period July 1, 1972 through June 30, 1973, for Army personnel assigned or attached to White Sands Missile Range, New Mexico. Requests for instruction shall be made by the government in the form of delivery orders. The majority of the expenditures from this award will be made in El Paso County.
9. DO-1, dated August 21, 1972, to Basic Agreement No. DAAD07-73-C-0003, whereby the Contracting Officer, Procurement, White Sands Missile Range, New Mexico 88002, authorizes the enrollment of an estimated five students and an estimated 16 credit hours during the Second Summer Session, 1972 and Fall Semester, 1972 for a maximum total obligation of \$250.00. The majority of the expenditures from this award will be made in El Paso County.

FEDERAL CONTRACTS AND GRANTS (CONTINUED)

10. Contract No. F29651-73-M-0764, dated August 14, 1972, whereby the Contracting Officer, Base Procurement Office, P. O. Drawer S, Holloman Air Force Base, New Mexico 88330, authorizes the payment of tuition and fees for one student for the period August 31, 1972 to August 31, 1973 at a total obligation not to exceed \$655.00. The majority of the expenditures from this award will be made in El Paso County.

THE UNIVERSITY OF TEXAS AT EL PASO
Amendments to the 1971-72 Operating Budget
October 20, 1972

The following amendments to the 1971-72 budget are written on the basis of "budget rates" rather than the "freeze rates" resulting from the President's Executive Order. For the duration of the wage-price freeze, while reported amendments to the budget are based on budget rates, all payrolls are processed in compliance with the rules, regulations, and guidelines issued under authority of the Executive Order.

EDUCATIONAL AND GENERAL
GENERAL ADMINISTRATION AND STUDENT SERVICES

Office of the Registrar

1. Transfer of Funds:

From: Office of the Registrar - Maintenance and Operation	\$4,850.00
To: Office of the Director of Admissions and Operations - Wages	3,100.00
Office of the Director of Admissions and Operations - Maintenance and Operation	1,750.00
For: To provide additional funds for the Office of Admissions and Operations for the adjustment of the original budget division. (RBC 481)	

2. Transfer of Funds:

From: Maintenance and Operation	\$970.00
To: Wages	970.00
For: Transfer between dissimilar appropriations to allow the department to service its needs more effectively. (RBC 480)	

3. Appoint Bill Sampson as Registrar effective August 7 through 31, 1972, at an annual rate of \$16,000.00 with the necessary funds in the amount of \$1,075.26 to come from Unallocated Salaries. (RBC 499)

4. Appoint Kenneth A. O'Neal as Associate Registrar effective August 7 through 31, 1972, at an annual rate of \$11,500.00 with the necessary funds in the amount of \$772.85 to come from Unallocated Salaries. (RBC 500)

Student Counseling Service

5. Transfer of Funds:

From: Unallocated Maintenance and Operation	\$2,100.00
To: Maintenance and Operation	2,100.00
For: To provide funds to handle the additional expense for giving special examinations. (RBC 487)	

GENERAL INSTITUTIONAL EXPENSE

Development Office

6. Appoint Lloyd L. Leech, Jr., as Director effective August 1 through 31, 1972, at an annual rate of \$15,000.00 with the necessary funds in the amount of \$1,250.00 to come from Unallocated Salaries. (RBC 486)

RESIDENT INSTRUCTION

SCHOOL OF EDUCATION

Curriculum and Instruction

7. Transfer of Funds:

From: Maintenance and Operation	\$20.00
To: Wages	20.00
For: Transfer between dissimilar appropriations to allow the department to service its needs more effectively. (RBC 490)	

Office of the Dean - School of Education

8. Appoint Cyrus Mayshark as Dean and Professor (tenure) of Health and Physical Education effective August 1 through 31, 1972, at an annual rate of \$28,000.00 with the necessary funds in the amount of \$2,333.33 to come from Unallocated Salaries. (RBC 453)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET (CONTINUED)EDUCATIONAL AND GENERAL (CONTINUED)RESIDENT INSTRUCTION (CONTINUED)SCHOOL OF LIBERAL ARTSHistory

9. Transfer of Funds:

From: Wages	\$200.00
To: Maintenance and Operation	200.00
For: Transfer between dissimilar appropriations to allow the department to service its needs more effectively. (RBC 504)	

Philosophy

10. Transfer of Funds:

From: Wages	\$15.00
To: Maintenance and Operation	15.00
For: Transfer between dissimilar appropriations to allow the department to service its needs more effectively. (RBC 503)	

SCHOOL OF SCIENCEBiological Sciences

11. Transfer of Funds:

From: Wages	\$500.00
To: Maintenance and Operation	500.00
For: Transfer between dissimilar appropriations to allow the department to service its needs more effectively. (RBC 496)	

Chemistry

12. Accept the resignation of Michael I. Davis as Ad Interim Chairman of the Department of Chemistry effective July 15, 1972. He will continue to serve as Professor in the Department of Chemistry. (RBC 451)

13. Transfer of Funds:

From: Wages	\$550.00
To: Maintenance and Operation	550.00
For: Transfer between dissimilar appropriations to allow the department to service its needs more effectively. (RBC 501)	

Physics

14. Transfer of Funds:

From: Wages	\$300.00
To: Maintenance and Operation	300.00
For: Transfer between dissimilar appropriations to allow the department to service its needs more effectively. (RBC 502)	

1972 SUMMER SESSION

15. Appoint Herbert H. Bartel, Jr. (tenure) as Professor (2/3 Time) and Chairman of the Department of Civil Engineering effective August 1, 1972, for the remainder of the 1972 Second Summer Term, at a full-time nine-months rate of \$20,600.00 with the necessary funds in the amount of \$1,526.00 to come from Unallocated Salaries. (RBC 452)

16. The following 1972 Summer Session changes were tabulated on RBC 489.

Type of Change	Department & Name	Rank	Summer Term	Nine-Months Rate	1972 Summer Session Budget			Unallocated Salaries		
					Addition	Deduction		Unfilled Position	Addition	Deduction
					Amount	Amount	Amount			
<u>Accounting</u>										
Resignation	John G. Pate, Jr.	T Assoc. Prof.	2nd	\$ 16,000	\$	\$ 2,667		\$ 2,667	\$	
Appointment	John R. Foster (1/2 Time)	Assoc. Prof.	2nd	16,000	1,333				1,333	
Appointment	Fayez S. Nourallah	T Assoc. Prof.	2nd	16,000*	2,633				2,633	
	*(budgeted less than nine-months rate due to limitation of funds)									
	F. Brigg Flores (1/2 Time)	Assoc. Prof.	2nd	15,600		1,300		1,300		
	(change status from Full-Time to 1/2 Time, 2nd Term)									
<u>Business</u>										
Appointment	Hector Zavaleta (1/2 Time)	Asst. Prof.	2nd	11,500	958				958	
<u>Economics and Finance</u>										
Appointment	Paul E. Fenlon (1/2 Time)	T Professor	2nd	18,100*	1,075	2,150	Asst. Prof.	1,075		
	*(budgeted less than nine-months rate due to limitation of funds)									
Appointment	John J. Hooker (1/2 Time)	T Professor	2nd	15,700*	1,075				1,075	
	*(budgeted less than nine-months rate due to limitation of funds)									
<u>Curriculum and Instruction</u>										
Resignation	Seth J. Edwards	Assoc. Prof.	2nd	12,900		2,150		2,150		
Appointment	M. Ray Mazon, 1/2 Time									
	(Visiting)	Assoc. Prof.	2nd	12,600	1,050				1,050	
Appointment	William Nesbitt, 1/2 Time									
	(Visiting)	Assoc. Prof.	2nd	13,200	1,100				1,100	
<u>Educational Psychology and Guidance</u>										
Appointment	Carolyn L. Cason, 1/2 Time									
	(Visiting)	Lecturer	2nd	12,000	1,000				1,000	
Appointment	Gerald J. Cason, 1/2 Time									
	(Visiting)	Lecturer	2nd	12,000	1,000				1,000	

Type of Change	Department & Name	Rank	Summer Term	Nine-Months Rate	1972 Summer Session Budget			Unallocated Salaries	
					Addition	Deduction	Unfilled Position	Addition	Deduction
					Amount	Amount		Amount	Amount
<u>Civil Engineering</u>									
Resignation	Howard G. Applegate (1/2 Time)	T Professor	1st	\$ 17,000	\$	\$ 1,417		\$ 1,417	\$
Appointment	Phillip W. Young (2/3 Time)	T Assoc. Prof.	2nd	11,900	1,322				1,322
	Calvin E. Woods (Change status from 1/2 Time, Both Terms to Full-time, 1st Term)	T Professor	1st	18,000					
<u>Electrical Engineering</u>									
Appointment	Joseph S. Lambert (Part-time)	T Professor	2nd	17,400	521				521
<u>Mechanical Engineering</u>									
Resignation	Kenneth S. Edwards, Jr.	T Professor	2nd	14,500		2,417		2,417	
Appointment	William L. Craver, Jr.	Asst. Prof.	2nd	13,000	2,167				2,167
<u>Art</u>									
	Loren G. Janzen (Change from 1st Term to 2nd Term)	Asst. Prof.	2nd	9,400					
<u>English</u>									
Appointment	Karen G. Ramirez (1/2 Time)	Instructor	2nd	8,500	709	2,666	Instructor	1,957	
Appointment	Hector M. Serrano (1/2 Time)	Instructor	2nd	8,000	667				667
Appointment	Arnold N. Sparks (1/2 Time)	Instructor	2nd	7,600	633				633
<u>History</u>									
Resignation	Charles Wilson (1/2 Time)	Teaching Asst.	1st	5,200		434		434	
Appointment	Werner Trost (1/2 Time)	Teaching Asst.	1st	5,200	434				434
<u>Modern Languages</u>									
Resignation	Maria E. Garcia (3/4 Time)	Instructor	2nd	9,000		1,125		1,125	
Appointment	Julia F. Herrera	Instructor	2nd	8,800	1,467				1,467

Type of Change	Department & Name	Rank	Summer Term	Nine-Months Rate	1972 Summer Session Budget			Unallocated Salaries	
					Addition	Deduction	Unfilled Position	Addition	Deduction
					Amount	Amount		Amount	Amount
<u>Music</u>									
Appointment	Engbret A. Thormodsgaard T	Professor	2nd	\$ 14,500	\$ 2,417	\$		\$	\$ 2,417
Appointment	Gene Lewis	Asst. Prof.	2nd	13,300	2,217				2,217
Appointment	Wilbur L. Moreland (Part-time)	Instructor	1st	9,400	140	1,600	Instructor Part-time	1,460	
Appointment	Phoebe Nutnick (Part-time)	Instructor	1st	9,400	250				250
Appointment	Mary F. Thomas (Part-time)	Instructor	1st	--	100				100
Appointment	C. K. Stribling (Part-time)	Instructor	1st	--	200				200
<u>Political Science</u>									
Resignation	James W. Lamare	Asst. Prof.	2nd	9,900		1,650		1,650	
Appointment	Roy Rodriguez (1/2 Time)	Instructor	2nd	9,900	825				825
Appointment	Joseph A. Yacono (1/2 Time)	Instructor	2nd	9,900	825				825
<u>Physics</u>									
	Robert G. McIntyre T	Professor	2nd	15,000					
	(Change from 1st Term to 2nd Term)								
	Oscar H. McMahan T	Professor	1st	14,800					
	(Change from 2nd Term to 1st Term)								
					<u>\$ 26,118</u>	<u>\$ 19,576</u>		<u>\$ 17,652</u>	<u>\$ 24,194</u>

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET (CONTINUED)EDUCATIONAL AND GENERAL (CONTINUED)ORGANIZED RESEARCHSchellenger Research Laboratory

17. Appoint Frank E. Rizzo as Research Engineer (1/2 Time) effective July 16 through August 31, 1972, at his full-time nine-months rate of \$15,400.00 as Associate Professor in the Department of Metallurgical Engineering with the necessary funds in the amount of \$1,283.00 to come from the appropriation for Non-teaching Salaries. (RBC 454)

18. Appoint Anthony J. Tarquin as Research Engineer (1/2 Time) effective June 1 through August 31, 1972, at his full-time nine-months rate of \$13,000.00 as Assistant Professor in the Department of Civil Engineering with the necessary funds in the amount of \$2,166.00 to come from the appropriation for Non-teaching Salaries. He will also serve as Co-Director (1/2 Time) in Grant EPA 801028. (RBC 478)

19. Appoint Howard G. Applegate as Research Engineer (1/2 Time) effective June 1 through July 15, 1972, at his full-time nine-months rate of \$17,000.00 as Professor in the Department of Civil Engineering with the necessary funds in the amount of \$1,417.00 to come from the appropriation for Non-teaching Salaries. He will also serve as Co-Director (1/2 Time) in Grant EPA 801028. (RBC 484)

Seismic Observatory

20. Transfer of Funds:

From: Maintenance and Operation	\$400.00
To: Wages	400.00
For: Transfer between dissimilar appropriations to allow the department to service its needs more effectively. (RBC 482)	

EXTENSION AND PUBLIC SERVICEThe Center for Extension and Continuing Education

21. Appoint James C. Parker as Director effective June 26 through August 31, 1972, at an annual rate of \$6,000.00 with the necessary funds in the amount of \$1,083.34 to come from Unallocated Salaries. (RBC 449)

CONTRACT RESEARCH AND SERVICESHEW Grant OEG-0-71-2634(453) - Upward Bound - 7th Year

22. Accept the resignation of Nancy Wood, Teacher, effective July 20, 1972, and lapse to unencumbered salaries \$697.42 budgeted for this position. (RBC 472)

HEW Grant 608-HEW-OS-71-10 - Head Start Supplemental Training

23. Appoint Gloria E. Robinson as Teacher (1/2 Time) effective July 16 through August 31, 1972, at her full-time nine-months rate of \$7,500.00 as Instructor in the Department of Curriculum and Instruction with the necessary funds in the amount of \$625.00 to come from budgeted salaries for this grant. She will also serve as Instructor (1/2 Time) in Curriculum and Instruction for the Second Term of the 1972 Summer Session. (RBC 473)

Texas Education Agency - Trainers of Teacher Trainers

24. Appoint Benny E. Spencer as Research Specialist (1/2 Time) effective July 1 through August 31, 1972, at a full-time nine-months rate of \$9,900.00 with the necessary funds in the amount of \$1,100.00 to come from budgeted salaries for this grant. (RBC 467)

Region XIX Sub Grant - Educational Leadership Program

25. Reappoint Roger L. Harrell as Director effective June 1 through July 15, 1972, at his nine-months rate of \$15,000.00 as Associate Professor (Visiting) of Curriculum and Instruction with the necessary funds in the amount of \$2,500.00 to come from budgeted salaries for this grant. (RBC 450)

U. S. Army Materiel Contract DAAD07-72-C-0257 - Upper Atmosphere Research

26. Appoint John A. Whitacre as Research Engineer Scientist effective June 20 through July 15, 1972, at his nine-months rate of \$14,700.00 as Professor in the Department of Mechanical Engineering with the necessary funds in the amount of \$1,415.56 to come from budgeted salaries for this contract. (RBC 456)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET (CONTINUED)CONTRACT RESEARCH AND SERVICES (CONTINUED)U. S. Army Materiel Contract DAAD07-72-C-0257 - Upper Atmosphere Research (Continued)

27. Appoint Carlos McDonald as Research Engineer Scientist effective July 16 through August 31, 1972, at his nine-months rate of \$12,000.00 as Assistant Professor in the Department of Electrical Engineering with the necessary funds in the amount of \$2,000.00 to come from budgeted salaries for this contract. (RBC 457)

28. Appoint Jerry L. Collins as Research Physicist (3/4 Time) effective June 20 through August 31, 1972, at a full-time annual rate of \$12,000.00 with the necessary funds in the amount of \$1,775.00 to come from budgeted salaries for this contract. (RBC 458)

29. Appoint Miguel Izquierdo as Research Physicist effective June 20 through August 31, 1972, at his nine-months rate of \$11,250.00 as Instructor in the Department of Electrical Engineering with the necessary funds in the amount of \$2,958.34 to come from budgeted salaries for this contract. (RBC 459)

NASA Grant NGR 44-012-147 - Plagioclase Mineralogy Study

30. Appoint Jerry M. Hoffer as Project Director effective June 1 through August 31, 1972, at his nine-months rate of \$12,900.00 as Associate Professor in the Department of Geological Sciences with the necessary funds in the amount of \$4,300.00 to come from budgeted salaries for this grant. (RBC 460)

NSF Grant GW-7303 - Environmental Quality - Summer Course

31. Appoint James L. Milson as Director effective July 16 through August 31, 1972, at his nine-months rate of \$11,500.00 as Assistant Professor in the Department of Curriculum and Instruction with the necessary funds in the amount of \$1,917.00 to come from budgeted salaries for this grant. (RBC 475)

32. Appoint John R. Bristol as Associate Director (1/2 Time) effective July 16 through August 31, 1972, at his full-time nine-months rate of \$11,050.00 as Assistant Professor in the Department of Biological Sciences with the necessary funds in the amount of \$921.00 to come from budgeted salaries for this grant. He will also serve as Assistant Professor (1/2 Time) in Biological Sciences for the Second Term of the 1972 Summer Session. (RBC 476)

HEW Grant OEG-0-714339 - UTEP Special Services Program for Student Assistance

33. Reappoint David Morales as Tutorial Coordinator effective July 1 through August 31, 1972, at his annual rate of \$10,000.00 with the necessary funds in the amount of \$1,666.66 to come from budgeted salaries for this grant. (RBC 461)

34. Reappoint Luis Pena as Financial Assistance Coordinator effective July 1 through August 31, 1972, at his annual rate of \$10,500.00 with the necessary funds in the amount of \$1,750.00 to come from budgeted salaries for this grant. (RBC 462)

35. Appoint Kay W. Reid as Reading Specialist (1/4 Time) effective July 1 through August 31, 1972, at a full-time annual rate of \$10,500.00 with the necessary funds in the amount of \$437.50 to come from budgeted salaries for this grant. (RBC 463)

36. Reappoint Felipe Peralta as Admissions and Retentions Coordinator effective July 1 through August 31, 1972, at his annual rate of \$10,500.00 with the necessary funds in the amount of \$1,750.00 to come from budgeted salaries for this grant. (RBC 464)

37. Reappoint Arthur J. Flores as Guidance Coordinator effective July 1 through August 31, 1972, at his annual rate of \$10,500.00 with the necessary funds in the amount of \$1,750.00 to come from budgeted salaries for this grant. (RBC 465)

38. Reappoint Peter J. Quaid as Program Evaluator (1/4 Time) effective July 1 through August 31, 1972, at his full-time annual rate of \$10,500.00 with the necessary funds in the amount of \$437.50 to come from budgeted salaries for this grant. (RBC 466)

Department of Labor Contract JCC-2246-99 - El Paso Manpower Center

39. Correct the annual rate of Arturo Pinon, Tutor - Math, as Shown on RBC 405 from \$5,200.00 to \$5,410.00 effective June 12 through August 25, 1972, with the additional funds in the amount of \$42.00 to come from budgeted salaries for this contract. (RBC 492)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET (CONTINUED)CONTRACT RESEARCH AND SERVICES (CONTINUED)Department of Labor Contract JCC-2246-99 - El Paso Manpower Center (Continued)

40. Correct the annual rate of Pete Jurado, Tutor - Reading as shown on RBC 423 from \$5,200.00 to \$5,410.00 effective June 12 through August 25, 1972, with the additional funds in the amount of \$42.00 to come from budgeted salaries for this contract. (RBC 493)

Environmental Protection Agency EPA 801028 - Treatment of Organic Waste Water

41. Appoint Sachindranarayan Bhaduri as Research Engineer effective June 1 through July 15, 1972, at his nine-months rate of \$13,500.00 as Associate Professor in the Department of Mechanical Engineering with the necessary funds in the amount of \$2,250.00 to come from budgeted salaries for this contract. (RBC 471)

42. Appoint Anthony J. Tarquin as Co-Director (1/2 Time) effective June 1 through August 31, 1972, at his full-time nine-months rate of \$13,000.00 as Assistant Professor in the Department of Civil Engineering with the necessary funds in the amount of \$2,167.00 to come from budgeted salaries for this contract. He will also serve as Research Engineer (1/2 Time) in the Schellenger Research Laboratory. (RBC 477)

43. Appoint Howard G. Applegate as Co-Director (1/2 Time) effective June 1 through August 31, 1972, at his full-time nine-months rate of \$17,000.00 as Professor in the Department of Civil Engineering with the necessary funds in the amount of \$2,832.00 to come from budgeted salaries for this contract. He will also serve as Research Engineer (1/2 Time) in the Schellenger Research Laboratory for the period June 1 through July 15, 1972, and as Professor (1/2 Time) in Civil Engineering for the Second Term of the 1972 Summer Session. (RBC 485)

NCAA National Summer Youth Sports Program - 1972

44. Accept the resignation of Vernon L. Butler, Boys' Supervisor, effective July 7, 1972, and lapse to unencumbered salaries \$103.87 budgeted for this position. (RBC 469)

45. Reappoint Julius C. Lowenberg, Jr. as Assistant Director effective July 15 through 21, 1972, at his annual rate of \$13,272.00 with the necessary funds in the amount of \$249.75 to come from budgeted salaries for this contract. (RBC 491)

Taft Institute, Summer 1972

46. Appoint Philip H. Bethune as Director effective July 16 through August 31, 1972, at his nine-months rate of \$9,500.00 as Instructor in the Department of Political Science with the necessary funds in the amount of \$1,579.00 to come from budgeted salaries for this grant. The grant limited the stipend to \$1,579.00. (RBC 468)

OTHER RESTRICTED CURRENT FUNDSEmma H. Schellenger Trust - Research Support Services

47. Appoint John A. Whitacre as Research Engineer Scientist effective June 1 through 19, 1972, at his nine-months rate of \$14,700.00 as Professor in the Department of Mechanical Engineering with the necessary funds in the amount of \$1,034.44 to come from the Emma H. Schellenger Trust Fund. (RBC 455)

School of Engineering - Gift Fund

48. Appoint Joseph S. Lambert as Professor (Part-time) effective July 16, 1972, for the Second Term of the 1972 Summer Session, at his full-time nine-months rate of \$17,400.00 as Professor in the Department of Electrical Engineering with the necessary funds in the amount of \$929.00 to come from the School of Engineering Gift Fund. He will also serve as Professor (Part-time) in Electrical Engineering. (RBC 483)

AUXILIARY ENTERPRISESIntercollegiate Athletics

49. Accept the resignation of Bobby J. Gill, Assistant Football Coach, effective July 13, 1972, and lapse to unencumbered salaries \$1,580.65 budgeted for this position. (RBC 470)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET (CONTINUED)AUXILIARY ENTERPRISES (CONTINUED)Intercollegiate Athletics (Continued)

50. Appoint John N. Crane as Assistant Football Coach effective August 15 through 31, 1972, at an annual rate of \$13,000.00 with the necessary funds in the amount of \$594.09 to come from budgeted salaries for this department. (RBC 505)

Housing System - Barry Hall

51. Appoint George R. Lockhart as Director of Barry Hall effective July 24 through August 31, 1972, at an annual rate of \$8,100.00 with the necessary funds in the amount of \$849.20 to come from budgeted salaries for this department. He will also receive an apartment valued at \$60.00 per month. (RBC 494)

52. Accept the resignation of Michael H. Holcomb, Dormitory Director (3/5 Time), effective August 4, 1972, and lapse to unencumbered salaries \$348.29 budgeted for this position. (RBC 497)

Housing System - Kelly Hall

53. Appoint Janet M. Lockhart as Director of Kelly Hall effective July 24 through August 31, 1972, at an annual rate of \$8,100.00 with the necessary funds in the amount of \$849.20 to come from budgeted salaries for this department. She will also receive an apartment valued at \$60.00 per month. (RBC 495)

Housing System - Director of Housing

54. Accept the resignation of John W. Griffin, Director, effective July 31, 1972, and lapse to unencumbered salaries \$1,250.00 budgeted for this position. (RBC 474)

55. Accept the resignation of Michael H. Holcomb, Dormitory Director (2/5 Time), effective August 4, 1972, and lapse to unencumbered salaries \$232.25 budgeted for this position. (RBC 498)

Student Association

56. Transfer of Funds:

From: Equipment	\$ 350.00
Other Operating Expense	120.00
Summer School Activities	220.00
F. I. C. A. and W. C. I.	420.00
Stipends	450.00
To: Salaries and Wages	1,560.00
For: Transfer between dissimilar appropriations to allow the department to service its needs more effectively. (RBC 479)	

The Union - Administration and Building Services

57. Approve the revision of the budget by decreasing the income in the amount of \$38,442.00 and decreasing the expenditures in the amount of \$69,615.00. (RBC 370)

The Union - Student Activities

58. Approve the revision of the budget by decreasing the income in the amount of \$8,000.00 and decreasing the expenditures in the amount of \$9,375.00. (RBC 371)

The Union - Union Food Service

59. Approve the revision of the budget by increasing the income in the amount of \$10,000.00 and increasing expenditures in the amount of \$48,894.00. (RBC 372)

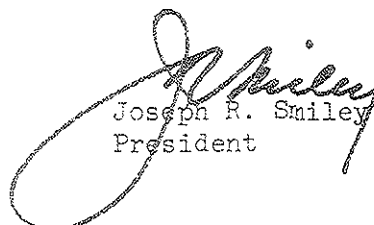
The Union - Recreation Room

60. Approve the revision of the budget by decreasing the income in the amount of \$3,000.00 and decreasing expenditures in the amount of \$2,303.00. (RBC 373)

Bookstore

61. Approve the revision of the budget by increasing the income in the amount of \$70,000.00 and increasing the expenditures in the amount of \$80,448.00. (RBC 374)

Sincerely,



Joseph R. Smiley
President

THE UNIVERSITY OF TEXAS AT ARLINGTON

Arlington, Texas

September 18, 1972

Dr. Charles A. LeMaistre, Chancellor
 The University of Texas System
 Austin, Texas 78701

Dear Dr. LeMaistre:

The following docket is submitted for your approval and presentation to the Board of Regents at the meeting in Austin on October 20, 1972:

USE OF TEXTBOOKS WRITTEN BY FACULTY MEMBERS

I recommend that the following faculty-authored books be approved for use as textbooks:

School of Liberal Arts

1. *Governing Texas: Documents and Readings, co-edited by Professors Irving O. Dawson and Luther G. Hagar, Jr., which sells for \$3.95 with 12 1/2¢ royalty to each author.

School of Engineering

2. *An Introduction to Mechanical Engineering Systems Modeling, co-authored by Professor Charles C. Blackwell and Mr. R. F. Giles, which sells for \$4.00 with 10¢ royalty to each author.

CHANGES IN 1972-73 CLASSIFIED PAY PLAN

I recommend approval of the following changes in the 1972-73 Classified Pay Plan at The University of Texas at Arlington:

Deletions:

<u>Code Number</u>	<u>Job Title</u>
3035	Placement/Student Aid Director
3410	Student Activities Director
8665	Director of Student Publications
9605	Purchasing Agent

Additions:

4002	Criminal Justice Program Coordinator
4341	Instrument Maker (no Roman numeral)
8818	Photographer (no Roman numeral)
9095	Teaching Aide
9135	Internal Auditor (no Roman numeral)

Changes:

9181	Cashier (Pay Range Change from 335-439/4020-5268 to 391-515/4692-6180)
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*Texts previously approved

RATIFICATION OF TICKET PRICES FOR CENTER FIELD SECTION
AT ARLINGTON STADIUM

I recommend ratification of a proposal by the Athletic Council at The University of Texas at Arlington that the price of tickets for seats in the new center field section at Arlington Stadium be \$5.00 per seat per game, with no reduction for season tickets, and that the seats be sold on a year to year basis.

BUSINESS CONTRACTS

I recommend approval and ratification of signatures of the following business contracts:

1. Contract dated July 31, 1972, between Collegiate Recovery & Credit Assistance Programs, Inc., and The University of Texas at Arlington whereby Collegiate Recovery agrees to accept for collection certain unpaid accounts of UT Arlington. A collection fee of 33 1/3% of the total amount collected will be paid Collegiate Recovery. In cases where collection costs are to be borne by debtor, the collection fee will be 25% of total monies collected.
2. Agreement between The University of Texas at Arlington and the Inter-University Council for the purpose of providing work to UT Arlington students eligible to participate in the College Work-Study Program.

RESEARCH AND OTHER ACADEMIC CONTRACTS

The following contracts, grants and amendments have been signed by the appropriate official upon the recommendation of the respective technical directors and fiscal officers.

Expenditures from these contracts and grants will be made in accordance with regular University operating procedures and contractual limitations. I recommend your approval and ratification of signatures.

PROJECTS SUPPORTED BY NON-FEDERAL SPONSORS

1. Amendment to an Agreement dated September 15, 1971, between the North Central Texas Council of Governments and the Institute of Urban Studies at The University of Texas at Arlington, for the provision of professional services to continue the Tarrant County Subject-in-Process System.
2. Contract Agreement between the Plano Independent School District and The University of Texas at Arlington for support of a social work course. This is a new contract agreement which provides support for field instruction of social work graduate students during the 1972-73 academic year.
3. Interagency Cooperation Contract IAC(72-73)-650 between The University of Texas at Arlington and The University of Texas Nursing School (System-wide) in the amount of \$7,500 for the purpose of enabling UT Arlington to furnish general stores supplies, telephone and postage, photography services, art work, duplication, etc., to UT Nursing School (System-wide). This is to renew IAC (72-73)-446.

4. Supplement No. 1, dated 8-8-72, to original award of Industrial Generating Co., Big Brown Steam Electric Station, for additional funds of \$2,113.50 to support Michael R. Speegle's research entitled "Population Structure and Species Distribution of the Ichthyofauna in the Big Brown Reservoir (Fairfield Lake)."

REMOVAL OF BUILDINGS LOCATED ON THE UNIVERSITY OF TEXAS AT ARLINGTON PROPERTY

Following completion of E. E. Davis Hall (Administration Building) several older temporary buildings became surplus to UT Arlington. Bids were sought for sale and removal of these buildings and no bids were received. Subsequently, arrangements were made with a wrecking contractor for removal of these surplus facilities, and I recommend the approval of the razing of the following buildings:

<u>Name</u>	<u>Inventory Number</u>	<u>Gross Sq. Ft.</u>	<u>Inventory Carrying Value</u>
Administration	598	3,690	\$ 52,500.00
Personnel Office	611	1,480	10,500.00
Security Office Building	613	1,650	8,150.00
Public Information	612	1,360	9,250.00
Psychology Office Building	584	5,454	750.00
Electrical Engineering - Antenna Range Building	601	369	1,410.00
Warehouse	615	6,000	4,200.00
Electrical Shop	548	815	2,001.95
Equipment Repair Shop	578	2,580	6,691.43
Truck Garage	533	924	402.63
Warehouse	590	5,577	4,455.12

THE UNIVERSITY OF TEXAS AT ARLINGTON

FEDERAL CONTRACTS AND GRANTS

Board Meeting on October 20, 1972

1. Transaction Numbers 721E1922, 730E1922, whereby the Department of Health, Education, and Welfare provides the sum of \$60,480 for the operation of the National Direct Student Loan Fund for the award period July 1, 1972 - June 30, 1973. The full amount of this award will be expended in Tarrant County, Texas.

2. Grant Number OEG-0-71-4632 whereby the Department of Health, Education, and Welfare provides the sum of \$10,900 for support under the Environmental Education Act of 1970 of a proposal by the Department of Architecture. The period of the grant is from 6/28/71 through 6/20/73. This is a revised grant award continuing the period of performance to June 20, 1973. The full amount of this award will be expended in Tarrant County, Texas.

3. Transaction Number 003656-6-73-1-1 whereby the United States Department of Justice, Law Enforcement Assistant Administration, awards the sum of \$76,500 for the Law Enforcement Education Program, for the period July 1, 1972 through June 30, 1973. The full amount of this award will be expended in Tarrant County, Texas.

4. TERMS OF AGREEMENT between the United States Department of Justice, Law Enforcement Assistance Administration, and The University of Texas at Arlington for participation in the Law Enforcement Education Program. No monies are awarded under this Agreement.

5. Amendment to Grant No. 46-P-30162/6-01 whereby the Department of Health, Education, and Welfare awards an additional sum of \$4,579 under the Manpower Development for Social and Rehabilitation Service Related Programs. The project entitled "Leadership Training: Inner City Social Services" will be under the direction of Dean Fernando G. Torgerson, Graduate School of Social Work. The budget period of this award is 7/1/72 through 6/30/73. The full amount of this award will be expended in Tarrant County, Texas.

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Board Meeting on October 20, 1972

GENERAL COLLEGE ADMINISTRATIONPurchasing Office

1. Transfer of Funds:

From:	Wages Hourly	\$140.
	Travel	\$150.
To:	Maintenance and Operation	\$290.
For:	Additional telephone and Xerox charges which were not anticipated make this change necessary in order to pay operating expenses for the department for the balance of the fiscal year.	

(RBC #392)

Office of Financial Aid

2. Transfer of Funds:

From:	Travel	\$147.10
To:	Maintenance and Operation	\$147.10
For:	Funds needed in the department for central mailing, supplies and printing costs.	

(RBC #398)

GENERAL INSTITUTIONAL EXPENSEOffice of Sponsored Projects

3. Transfer of Funds:

From:	Capital Outlay	\$290.
	Travel	\$374.
To:	Maintenance and Operation	\$664.
For:	To be used for subscriptions to various publications related to grants which may be available.	

(RBC #413)

Office of News and Information Service

4. Appoint Lynn Davis as Director with annual rate of \$15,000 effective August 1, 1972. Funds available from Unallocated General Institutional Expense-Unallocated Salaries. (RBC #379)

5. Transfer of Funds:

From:	Travel	\$372.20
To:	Maintenance and Operation	\$372.20
For:	Funds needed for photographic supplies for use in the department.	

(RBC #399)

THE UNIVERSITY OF TEXAS AT ARLINGTON

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Board Meeting on October 20, 1972

Department of General Publications

6. Transfer Richard M. Yantis from Account 11-224 News and Information Service, Associate Director with annual rate of \$13,800 to Account 11-228 General Publications as Director with no change in annual rate effective August 1, 1972. Funds available from Account 11-224 News and Information Service. (RBC #376)

LIBERAL ARTSOffice of Dean of Liberal Arts

7. Transfer of Funds:

From:	Maintenance and Operation	\$85.
To:	Travel	\$85.
For:	Funds allocated for travel have been exhausted and additional amount is needed to cover necessary trips for the remainder of the year.	

(RBC #400)

Department of Foreign Languages and Linguistics

8. Transfer of Funds:

From:	Travel	\$57.
To:	Maintenance and Operation	\$57.
For:	Additional funds needed to purchase office supplies.	

(RBC #410)

Department of History and Philosophy

9. Transfer of Funds:

From:	Wages Hourly	\$315.
To:	Capital Outlay	\$165.
	Maintenance and Operation	\$150.
For:	To purchase supplies needed to continue the operation of the department, and for capital outlay item (microfish reader) for use in the department.	

(RBC #381)

Department of Physical Education - Men

10. Transfer of Funds:

From:	Travel	\$295.78
	Capital Outlay	\$476.68
To:	Wages Hourly	\$100.00
	Maintenance and Operation	\$672.46
For:	Additional funds are needed in Wages Hourly and Maintenance and Operation for the operation of the department for the balance of the fiscal year.	

(RBC #411)

THE UNIVERSITY OF TEXAS AT ARLINGTON

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Board Meeting on October 20, 1972

Department of Sociology

11. Transfer of Funds:

From:	Wages Hourly	\$111.46
To:	Maintenance and Operation	\$111.46

For: The highest priority need in the Sociology Department is for materials related to teaching in the fall of 1972. It is therefore necessary to order additional instructional items now in order to have them available for the fall.

(RBC #393)

Department of Speech/Drama (Communication)

12. Transfer of Funds:

From:	Maintenance and Operation	\$950.
To:	Wages Hourly	\$950.

For: Hourly wages for student workers was inadequate to meet the requirements and this transfer is necessary to balance this portion of our budget.

(RBC #394)

13. Transfer of Funds:

From:	Capital Outlay	\$350.
To:	Wages Hourly	\$350.

For: Hourly wages for student workers was inadequate to meet requirements; therefore budget was exhausted some time ago and this transfer is necessary to balance this portion of the budget.

(RBC #382)

SCIENCEOffice of the Dean of Science

14. Transfer of Funds:

From:	Wages Hourly	\$155.
	Travel	\$230.
	Capital Outlay	\$660.
To:	Maintenance and Operation	\$1045.

For: Funds will be used to complete remodeling of Dean of Science Office.

(RBC #390)

Department of Chemistry

15. Transfer of Funds:

From:	Capital Outlay	\$275.
To:	Travel	\$275.

For: Annual meeting of the American Chemical Society changed to meet prior to September 1 and no money was budgeted to allow personnel to attend during this fiscal year. Some important papers on the teaching of chemistry and its relationship to environmental science will be given at this fall meeting; therefore this transfer is requested.

(RBC #386)

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Board Meeting on October 20, 1972

Department of Geology

16. Transfer of Funds:

From:	Travel	\$200.
To:	Maintenance and Operation	\$200.

For: All travel for this year has been completed and the monies are needed for maintenance and operation of the department.

(RBC #371)

Department of Physics

17. Transfer of Funds:

From:	Travel	\$208.
To:	Wages Hourly	\$208.

For: Needed in Wages Hourly to increase the number of hours of employment of student assistants.

(RBC #383)

BUSINESS ADMINISTRATIONOffice of the Dean of Business Administration

18. Transfer of Funds:

From:	Wages Hourly	\$500.
To:	Maintenance and Operation	\$500.

For: This transfer is requested in order to pay for supplies needed in applying for accreditation for the MBA program.

(RBC #377)

Department of Accounting

19. Transfer of Funds:

From:	Travel	\$125.
To:	Maintenance and Operation	\$125.

For: Travel funds not needed and funds can be used for Maintenance and Operation to balance the fiscal year 1971-72 budget.

(RBC #384)

Department of Business Administration

20. Transfer of Funds:

From:	Wages Hourly	\$1000.
To:	Maintenance and Operation	\$1000.

For: Due to the increased demand for supplies in our department, we hereby request this transfer.

(RBC #397)

THE UNIVERSITY OF TEXAS AT ARLINGTON

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Board Meeting on October 20, 1972

Department of Economics

21. Transfer of Funds:

From:	Wages Hourly	\$550.
	Travel	\$106.
	Capital Outlay	\$100.
To:	Maintenance and Operation	\$756.

For: Expenditures on Maintenance and Operation have been greatly increased during the current year as a consequence of the installation of the new telephone system. In consequence of this development it has become necessary to reduce planned expenditures in Wages Hourly, Capital Outlay and Travel in order to provide funds to cover increases in operation costs.

(RBC #385)

ENGINEERINGDepartment of Aerospace and Mechanical Engineering

22. Transfer of Funds:

From:	Capital Outlay	\$400.
To:	Wages Hourly	\$400.

For: To cover overdraft in Wages Hourly.

(RBC #387)

Department of Industrial Engineering

23. Transfer of Funds:

From:	Key Punch Operator I	\$1800.00
To:	Travel	\$ 100.14
	Computer Services	\$ 150.00
	Maintenance and Operation	\$1549.86

For: Funds needed to cover computer services, expenses in the development of the human factors laboratory, and other maintenance and operation expenses. The position of Key Punch Operator I has been unfilled this year.

(RBC #401)

GRADUATE SCHOOLOffice of the Dean of Graduate School

24. Transfer of Funds:

From:	Travel	\$115.
To:	Maintenance and Operation	\$115.

For: Funds needed for outstanding purchases.

(RBC #395)

25. Transfer of Funds:

From:	Wages Hourly	\$50.
To:	Maintenance and Operation	\$50.

For: To apply to telephone expense deficit.

(RBC #388)

THE UNIVERSITY OF TEXAS AT ARLINGTON

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Board Meeting on October 20, 1972

LIBRARYLibrary-All Other

26. Transfer of Funds:

From:	Unallocated Library-	
	Unallocated Salaries	\$450.
To:	Library-All Other	
	Maintenance and Operation	\$450.
For:	Due to the increase in price of library supplies this additional amount is needed in Maintenance and Operation for the remainder of this fiscal year.	

(RBC #391)

27. Transfer of Funds:

From:	Maintenance and Operation	\$174.80
To:	Travel	\$174.80
For:	Increased travel requirements resulting from appointment to System Wide Library Committee has necessitated additional funds in this category.	

(RBC #402)

28. Accept the resignation of Bettye S. Shaw, Professional Librarian with annual rate of \$10,000 effective August 31, 1972. (RBC #403)

SPECIAL ITEMSGraduate School of Social Work

29. Re-appoint Gary P. Land (non-tenure), Assistant Professor with academic rate of \$12,300 effective August 1, 1972. Funds available from Maintenance and Operation within the departmental account. (RBC #404)

30. Appoint Alfred C. Beza (non-tenure) as Assistant Professor with academic rate of \$12,600 effective August 1, 1972. Funds available from Maintenance and Operation within the departmental account. (RBC #405)

AUXILIARY ENTERPRISESStudent Activities-General

31. Transfer of Funds:

From:	Maintenance and	
	Operation	\$275.
To:	Travel	\$275.
For:	Funds allocated to Soccer Team for travel was included in Maintenance and Operation - thus, this transfer is needed.	

(RBC #412)

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Board Meeting on October 20, 1972

SERVICE DEPARTMENTSLibrary-Duplication

32. Transfer of Funds:

From:	Estimated Income	\$6120.
To:	Maintenance and Operation	\$6120.
For:	The revised income estimate based on duplication fees for the first ten months of fiscal year 1971-72 indicate that a more realistic amount for the year is \$40,000.	

(RBC #389)

Library - Film Rental

33. Transfer of Funds:

From:	Maintenance and Operation	\$1152.71
To:	Wages Hourly	\$1152.71
For:	Additional funds required to pay added student wages resulting from requirements of relocation of department and increased work load for film rentals.	

(RBC #396)

CURRENT RESTRICTED FUNDSGraduate School of Social Work

34. Re-appoint Ted R. Watkins (non-tenure) as Assistant Professor with academic rate of \$12,000 effective August 1, 1972. Funds are available within the account. (RBC #408)

35. Re-appoint Florence H. Phelps (non-tenure) as Assistant Professor with academic rate of \$12,000 effective August 1, 1972. Funds are available within the account. (RBC #409)

Continuing Education

36. Transfer of Funds:

From:	12-898 Unallocated Departmental Operating Expense	\$70,000.
To:	Continuing Education	\$70,000.
For:	To transfer funds to clear the deficit in the Continuing Education account.	

(RBC #380)

GRANTS AND CONTRACTSGraduate School of Social Work

37. Appoint Ethel B. Crear (non-tenure) as Assistant Professor with academic rate of \$12,000 effective August 11, 1972. Funds are available within the departmental account. (RBC #406)

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Board Meeting on October 20, 1972

National Institute of Mental Health
School of Social Work

38. Appoint Sylvia K. Mitchell (non-tenure) as Assistant Professor with academic rate of \$12,272, appointed on 11 months basis with salary rate of \$15,000, effective August 1, 1972. Funds are available within the account. (RBC #407)

RECOMMENDED AMENDMENTS TO THE SUMMER BUDGET, 1972

Board Meeting on October 20, 1972

LIBERAL ARTS

Department of History and Philosophy

1. Change the status of Robert L. Williamson (Tenure), Associate Professor with academic rate of \$12,600 from 50% with stipend of \$1050 to 100% with stipend of \$2100 effective July 16, 1972. Additional funds are available from Unallocated Faculty Salaries. (RBC #375)

SCIENCE

Department of Mathematics

2. Change the status of Michael E. Lord (non-tenure), Assistant Professor with academic rate of \$12,900 from 50% with stipend of \$1075 to 100% with stipend of \$2150 effective July 16, 1972. Additional funds are available from Unallocated Faculty Salaries. (RBC #374)

BUSINESS ADMINISTRATION

Department of Business Administration

3. Re-appoint William P. Green (Tenure) as Associate Professor with academic rate of \$16,000 at 50% with stipend of \$1333, effective July 16, 1972. Funds are available from Unallocated Faculty Salaries. (RBC #372)

Department of Economics

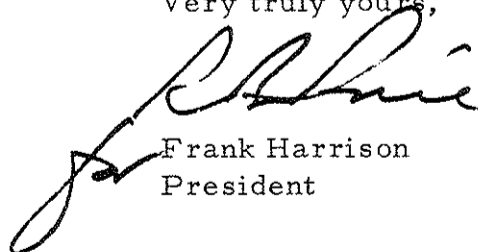
4. Change the status of Paul M. Hayashi (Tenure) Associate Professor with academic rate of \$15,000 from 50% with stipend of \$1250 to 100% with stipend of \$2500 effective July 16, 1972. Additional funds are available from Unallocated Faculty Salaries. (RBC #373)

ENGINEERING

Department of Electrical Engineering

5. Re-appoint Don L. Cannon (non-tenure) as Assistant Professor with academic rate of \$12,900 at 50% with stipend of \$1075 effective July 16, 1972. Funds are available from Unallocated Faculty Salaries. (RBC #378)

Very truly yours,



Frank Harrison
President

THE UNIVERSITY OF TEXAS AT DALLAS
Office of the President
October 20, 1972

Chancellor Charles A. LeMaistre
The University of Texas System
Austin, Texas

Dear Chancellor LeMaistre:

The following docket for The University of Texas at Dallas is submitted for your approval and submission to the Board of Regents at its meeting in Austin, Texas on October 20, 1972.

USE OF TEXTBOOKS WRITTEN BY FACULTY

In accordance with Chapter III, Section 24, Part One of the Regents' Rules and Regulations for the government of The University of Texas, I recommend approval of the use of the following faculty authored books as textbooks for the 1972-73 fiscal year:

<u>Title</u>	<u>Author(s)</u>	<u>Cost to Student</u>	<u>Royalty per Volume per Author</u>
Statistical Analysis for Business	Lee H. Smith Donald R. Williams	\$11.95	\$0.89
Study Guide for Statistical Analysis for Business	Lee H. Smith Donald R. Williams	\$ 2.95	\$0.22

ADDITIONS TO PERSONNEL PAY PLAN

I recommend and the Office of the Chancellor has approved, the following job titles to be added to the 1972-73 Personnel Pay Plan of The University of Texas at Dallas:

<u>Code No.</u>	<u>Title</u>	<u>Salary Range</u>	
		<u>Monthly Range</u>	<u>Annual Range</u>
4350	Glassblower III	1000 - 1250	12000 - 15000
4351	Glassblower II	835 - 1050	10020 - 12600
4352	Glassblower I	680 - 835	8160 - 10020
4413	Research Assistant	620 - 835	7440 - 10020
9011	Auxiliary Services Supervisor	800 - 1000	9600 - 12000
9012	Staff Services Supervisor	800 - 1000	9600 - 12000
9545	Personnel Assistant	514 - 650	6168 - 7800
9608	Purchasing Supervisor	800 - 1000	9600 - 12000

Ranges will be adjusted to Revised 1972-73 step values.

ABSENCE FROM USUAL AND REGULAR DUTIES

In accordance with Part Two, Chapter III, Section 13 of the Rules and Regulations of the Board of Regents of The University of Texas System, I recommend and the Chancellor's Office has approved the following request for absence from usual and regular duties:

1. Dr. William B. Hanson for the period July 31 through September 11, 1972, to attend scientific meetings and present papers in France, Germany, Poland, and Nigeria. No travel costs are being paid from state funds. His salary for this period is 80% contracts and grants and 20% state funds.

ACADEMIC AND BUSINESS CONTRACTS

1. Interagency Cooperation Contract IAC(72-73)-502 with North Texas State University (Computer Science Department) signed by Vice President for Business Affairs S. C. Fallis, whereby The University of Texas at Dallas, Performing Agency, provided Computer Center Services for North Texas State University, Receiving Agency, for the period June 1, 1972 through August 31, 1972, with the total not to exceed \$750.
2. Interagency Cooperation Contract IAC(72-73)-607 with The University of Texas at Arlington (School of Business) signed by Vice President for Business Affairs S. C. Fallis, whereby The University of Texas at Dallas, Performing Agency, provides Computer Center Services for The University of Texas at Arlington, Receiving Agency, for the period September 1, 1972 through August 31, 1973, with the total not to exceed \$7,000.
3. Interagency Cooperation Contract IAC(72-73)-609 with The University of Texas at Arlington (Physics Department) signed by Vice President for Business Affairs S. C. Fallis, whereby The University of Texas at Dallas, Performing Agency, provided Computer Center Services for The University of Texas at Arlington, Receiving Agency, for the period September 1, 1972 through August 31, 1973, with the total not to exceed \$6,000.
4. Interagency Cooperation Contract IAC(72-73)-621 with East Texas State University, signed by Vice President for Business Affairs S. C. Fallis, whereby The University of Texas at Dallas, Performing Agency, provided Computer Center Services for East Texas State University, Receiving Agency, for the period September 1, 1972 through May 31, 1973, with the total not to exceed \$2,914.50.
5. I recommend ratification of the award of the following contract to the low bidder, Ed Dowd Construction Company, Incorporated, Dallas, Texas, for the repair, renovation, and refurbishment of the University property located at 6809 Briar Cove, Dallas, Texas. The following bids were received:

<u>Firm</u>	<u>Bid</u>
Joe Funk Construction Company, Inc.	\$42,500
Steve Robertson & Associates, Inc.	36,460
Ed Dowd Construction Company, Inc.	34,300

The source of funds for this award is \$28,850 from proceeds of Tuition Revenue Bonds previously appropriated for this purpose and \$5,450 from private gift funds available to the University.

6. I recommend ratification of the Agreement between The University of Texas at Dallas and the Dallas County Community College which will permit The University of Texas at Dallas to employ (part-time) students attending the Dallas County Community College. The agreement provides that The University of Texas at Dallas will pay 30% of the salary earned, and the Dallas County Community College will pay the remainder of the salary earned from funds provided by the federally-sponsored College Work-Study Program.

THE UNIVERSITY OF TEXAS AT DALLASAMENDMENTS TO THE 1971-72 OPERATING BUDGETOCTOBER 20, 1972RESIDENT INSTRUCTIONPhysics

1. Transfer of Funds

Amount of Transfer - \$ 2,400.00

From:	DASS Administration Administrative and Professional Salaries	\$ 2,400.00
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To:	DASS Administration Capital Outlay	\$ 2,400.00
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To provide for funds for the construction
of display cases. (RBC D120)

2. Transfer of Funds

Amount of Transfer - \$ 2,100.00

From:	DASS Organized Research Classified Salaries	\$ 2,100.00
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To:	DASS Organized Research Administrative and Professional Salaries	\$ 2,100.00
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To provide for the appointment of a
Research Associate. (RBC D122)

Sincerely,



Bryce Jordan
President

THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL SCHOOL AT DALLAS
5323 Harry Hines Boulevard, Dallas, Texas 75235

September 15, 1972

Dr. Charles A. LeMaistre
Chancellor
The University of Texas System
Austin, Texas 78712

Dear Dr. LeMaistre:

The following docket for The University of Texas Southwestern Medical School at Dallas is submitted for your approval and presentation to the Board of Regents at its next meeting in Austin on October 20, 1972.

HOLIDAY AND VACATION SCHEDULE FOR 1972-73. Approval is requested for the following holiday and vacation schedule.

September 4, 1972	Monday	Labor Day
November 23, 1972	Thursday	Thanksgiving Day
November 24, 1972	Friday	Thanksgiving Holiday
December 22, 1972	Friday	Christmas Holiday
December 25, 1972	Monday	Christmas Day
December 26, 1972	Tuesday	Christmas Holiday
December 27, 1972	Wednesday	Christmas Holiday
December 28, 1972	Thursday	Christmas Holiday
December 29, 1972	Friday	Christmas Holiday
January 1, 1973	Monday	New Year's Day
April 20, 1973	Friday	Good Friday
May 28, 1973	Monday	Memorial Day
July 4, 1973	Wednesday	Independence Day

Two additional State Legal Holidays not observed by the University will be added to the statutory allowance to provide a total of twelve (12) working days annual leave for 1972-73, as has been the past practice. Also in accordance with the Appropriation Bill, University annual employees with fifteen (15) years State employment shall be entitled to seventeen (17) working days annual leave, and annual employees with twenty (20) years State employment shall be entitled to twenty-two (22) working days annual leave for 1972-73.

TRAVEL PERMITS. Approval is requested for the following travel:

1. Dr. Dean Lusted, Assistant Professor of Pathology to travel to Sheffield University, England for the period from October 1, 1972 through August 31, 1973 on a fellowship. No expenses are requested and it will be a leave of absence without pay.

GIFTS OF \$5,000 OR MORE. It is recommended the following gifts be approved and that the appreciation of the Board of Regents be sent to the donor.

<u>Donor</u>	<u>Purpose and Condition</u>	<u>Amount</u>
1. Eli Lilly & Company P. O. Box 618 Indianapolis, Indiana 46206	Various Donors - Internal Medicine	\$5,000.00
2. Mr. William R. Eliassof For the Trustees of Hillcrest Foundation First National Bank in Dallas P. O. Box 6031 Dallas, Texas 75222	Dallas Area Hospital Television System	\$45,000.00

GIFTS OF \$5,000 OR MORE - continued

<u>Donor</u>	<u>Purpose and Condition</u>	<u>Amount</u>
3. Methodist Hospital of Dallas Research and Teaching Fund P. O. Box 5999 Dallas, Texas 75222	Post-Doctoral Fellowship of Dr. Larry A. Bruce	\$10,000.00
4. The Lilly Research Laboratories Indianapolis, Indiana 46206	Internal Medicine Investment Fund	\$15,000.00
5. Southwestern Medical Foundation 333 Medical Arts Building Dallas, Texas 75201	Fred F. Florence Bio-information Center	\$305,000.00
6. Southwestern Medical Foundation 333 Medical Arts Building Dallas, Texas 75201	Phase I Building Program (Includes \$500,000 designated for parking garage)	\$1,128,000.00

GRANTS (NON-GOVERNMENTAL). Approval of the following grants is requested and it is recommended that the appreciation of the Board of Regents be sent to the donors:

American Heart Association, Inc.
44 East 23rd Street
New York, New York 10010

1. Fellowship Supply Allowance
Fellowship and Investigatorship Awardees
Dr. Donald Seldin and Dr. R. W. Estabrook
\$3,000
2. Teaching Scholarship Award
For support of activities of a teaching scholar
Dr. Charles B. Mullins
July 1, 1972 - June 30, 1973
\$1,000

The Children's Development Center
3131 North Pearl
Dallas, Texas 75201

3. Training Grant
Training in Clinical Psychology
Dr. Maurice Korman
September 1, 1972 - August 31, 1973
\$4,000

Dallas Child Guidance Clinic
2101 Welborn
Dallas, Texas 75219

4. Training Grant
For support of training program in Psychology
Dr. Maurice Korman
September 1, 1972 - August 31, 1973
\$3,600

GRANTS (NON-GOVERNMENTAL) - continued

Education Service Center
 Region 10
 P. O. Box 1300
 Richardson, Texas 75080

5. Psychological Services Grant
Psychological Services to Special Education Services Department
 Dr. Maurice Korman
 July 1, 1972 - June 30, 1973
 \$9,000

Eli Lilly and Company
 Medical Plans and Regulatory Affairs
 P. O. Box 618
 Indianapolis, Indiana 46206

6. Research Grant
Effects of Secretion on Pancreatic Glucagon Secretion
 Dr. Roger H. Unger
 \$6,000

Ethicon, Inc.
 Somerville, New Jersey

7. Research Grant
Evaluation of XIG Polyester Suture
 Dr. Ronald C. Jones
 \$1,435

Pharmacia Laboratories, Inc.
 800 Centennial Avenue
 Piscataway, New Jersey 08854

8. Research Grant
Evaluation of Phadebas Vitamin B12 Test
 Dr. Eugene P. Frenkel
 May 15, 1972 - indefinite
 \$10,000

Rowell Laboratories, Inc.
 Baudette, Minnesota 56623

9. Research Grant
Study of Ultraviolet Screening Effectiveness of DHA/Lawsone
in Approximately 15 Patients with Light Sensitive Dermatoses
 Dr. James Herndon, Jr.
 \$4,600

United Cerebral Palsy Research and Educational
 Foundation, Inc.
 66 East 34th Street
 New York, New York 10018

10. Research Grant
Studies of Viral Infection of Early Infancy as a Cause of
Permanent Central Nervous System Dysfunction
 Dr. Heinz Eichenwald
 July 1, 1972 - June 30, 1973
 \$16,971

GRANTS (NON-GOVERNMENTAL) - Continued

Upjohn Company
Kalamazoo, Michigan 49001

11. Research Grant
Minoxidil Emergency Protocol
Dr. William A. Pettinger
\$2,049.70

CONTRACTS AND AGREEMENTS (OTHER). Approval is requested for the following:

1. Interagency Contract IAC (72-73)-630 whereby the State Board of Control, P. O. Box 13047, Capitol Station, Austin, Texas 78711, approves a contract not to exceed \$18,000 for The University of Texas Southwestern Medical School at Dallas, Department of Pathology to examine Cervical Cytology Smears for patients of Family Planning Clinics of the Texas State Department of Health for the period from September 1, 1972 through August 31, 1973.
2. Interagency Contract IAC (72-73)-665 whereby the State Board of Control, P. O. Box 13047, Capitol Station, Austin, Texas 78711, approves a contract not to exceed \$12,000 for the University of Texas Southwestern Medical School at Dallas to provide services for one Fellow (physician) at the Regional Cardiac Center for the period from September 1, 1972 through June 30, 1973.
3. Agreement whereby the School of Allied Health Professions of the University of Texas Southwestern Medical School at Dallas and Texas State Department of Public Welfare agree to provide field instruction in social services for selective undergraduate students of the school commencing September 1, 1972. There shall be no exchange of funds under this agreement. This is directed by Dr. John W. Schermerhorn, Dean, The School of Allied Health Professions.
4. As cited in Regents' Rule and Regulations, Part Two, Chapter IV, Section 6, approval is requested for a Lease Agreement whereby the University of Texas Southwestern Medical School at Dallas leases from 2600 Stemmons Freeway Company, 611 Stemmons Tower South, Dallas, Texas 75207, approximately 1517 sq. ft., being known as Suite 188 in Building II, for a two-year period commencing September 1, 1972 through August 31, 1974 in the amount of \$600 per month.

AMENDMENTS TO 1971-72 BUDGET. Approval is requested for the following amendments to the 1971-1972 budget which are written on the basis of "budget rates" rather than the "freeze rates" resulting from the President's Executive Order. For the duration of the wage-price freeze, while reported amendments to the budget are based on budget rates, all payrolls are processed in compliance with the rules, regulations, and guidelines issued under authority of the Executive Order.

OFFICE OF STUDENT AFFAIRS

1. Transfer funds in the amount of \$1,250 from Unallocated Maintenance & Operation, account No. 207005, to Office of Student Affairs Maintenance & Operation, account No. 200705. (RBC No. 427)

OFFICE OF PERSONNEL

2. Appoint Johnnie L. Reynolds, Director of Personnel, effective July 17, 1972 at an annual salary rate of \$15,000 payable from Office of Personnel budget. (RBC No. 403)

OFFICE OF THE PURCHASING AGENT; OFFICE OF THE BUSINESS MANAGER

3. Transfer funds in the amount of \$2,666.66 from Unallocated Classified Salaries, account No. 207001, to Office of the Business Manager Salaries, account No. 201301, and change the status of Morris O. Bridges effective July 1, 1972 from Purchasing Agent, at an annual salary rate of \$14,500 payable from Office of the Purchasing Agent Salaries, to Assistant Business

OFFICE OF THE PURCHASING AGENT - continued

Manager, at an annual salary rate of \$16,000 payable from Office of the Business Manager Salaries. (RBC No. 397)

ANESTHESIOLOGY

4. Change the status and source of salary of P. Prithvi Raj (non-tenure), effective July 1, 1972, from Assistant Professor, at an annual salary rate of \$25,000 payable as follows: \$2,700 from Anesthesiology Various Donors and \$22,300 from Veterans Administration Hospital - direct; to Director of Anesthesiology, Veterans Administration Hospital and Assistant Professor of Anesthesiology, at an annual salary rate of \$25,000 payable from Veterans Administration Hospital Contract. (RBC No. 357)

5. Appoint Richard Earl Morris (non-tenure), Assistant Professor, effective July 1, 1972 at an annual salary rate of \$25,000 from Parkland Memorial Hospital. (RBC No. 387)

6. Appoint Vincent Henry Bradley (non-tenure), Visiting Assistant Professor, effective August 1, 1972 at an annual salary rate of \$15,000 payable from Children's Medical Center - Anesthesiology Inhalation Therapy Fund. (RBC No. 391)

7. Void RBC No. 391 appointing Vincent Henry Bradley (non-tenure), Visiting Assistant Professor, effective August 1, 1972. Dr. Bradley will be appointed at a later date during the 1972-73 fiscal year as he was unable to come at this time. (RBC No. 418)

8. Transfer funds in the amount of \$1,250 from Unallocated Faculty Salaries, account No. [REDACTED], to Anesthesiology Teaching Salaries, account No. [REDACTED], and reappoint Samuel James Montgomery (non-tenure), Visiting Assistant Professor, effective August 1, 1972 at an annual salary rate of \$15,000. (RBC No. 415)

BIOCHEMISTRY

9. Transfer funds in the amount of \$1,291.67 from Unallocated Faculty Salaries, account No. [REDACTED], to Biochemistry Teaching Salaries, account No. [REDACTED], and appoint Arthur Peter Bollon (non-tenure), Assistant Professor, effective August 1, 1972 at an annual salary rate of \$15,500 payable from Biochemistry budget. (RBC No. 423)

10. Appoint John L. McCarthy (non-tenure), Visiting Professor, for the period July 7, 1972 through August 27, 1972, at an annual salary rate of \$24,000 payable from USPHS 5 P11 GM-16488. (RBC No. 380)

11. Accept the resignation of Sten Orrenius (non-tenure), Visiting Professor, effective June 30, 1972. Dr. Orrenius is budgeted at an annual salary rate of \$24,000 payable from USPHS 5 P11 GM-16488. (RBC No. 366)

12. Appoint Volker Ullrich (non-tenure), Visiting Professor, for the period from July 3, 1972 through July 23, 1972 at an annual salary rate of \$26,574 payable from USPHS 5 P11 GM-16488. (RBC No. 372)

13. Appoint Jurgen Werringloer (non-tenure), Visiting Assistant Professor, effective July 1, 1972 at an annual salary rate of \$14,000 payable from USPHS 5 P11 GM-16488. (RBC No. 379)

14. Appoint Carolyn C. Walker (non-tenure), Assistant, effective August 7, 1972 at an annual salary rate of \$8,000 payable from American Cancer Society. (RBC No. 424)

CELL BIOLOGY

15. Change the source of salary of Rupert Billingham (tenure), Professor and Chairman, effective July 1, 1972 from an annual salary rate of \$36,000 payable as follows: \$32,500 from Cell Biology budget and \$3,500 from Southwestern Medical Foundation, to \$22,500 from Cell Biology budget, \$10,000 from USPHS 1 R01 AI-10678, and \$3,500 from Southwestern Medical Foundation. (RBC No. 363)

CELL BIOLOGY - continued

16. Change the source of salary of J. Wayne Streilein (tenure), Professor of Cell Biology and Associate Professor of Internal Medicine, effective July 1, 1972, from an annual salary rate of \$30,000 payable from Cell Biology budget, to \$20,000 from Cell Biology budget and \$10,000 from USPHS 1 R01 AI-10678. (RBC No. 365)
17. Change the source of salary of Alan Beer (non-tenure), Assistant Professor of Cell Biology and Obstetrics and Gynecology, effective July 1, 1972, from \$22,000 payable from Cell Biology budget, to \$12,000 from Cell Biology budget and \$10,000 from USPHS 1 R01 AI-10678. (RBC No. 364)
18. Transfer funds in the amount of \$2,666.66 from Unallocated Faculty Salaries, account No. [REDACTED], to Cell Biology Teaching Salaries, Account No. [REDACTED], and appoint Peter M. Andrews (non-tenure), Assistant Professor, effective July 1, 1972, at an annual salary rate of \$16,000 payable from Cell Biology budget. (RBC No. 369)
19. Transfer funds in the amount of \$1,935.50 from Unallocated Faculty Salaries, account No. [REDACTED], to Cell Biology Teaching Salaries, account No. [REDACTED], and appoint Frederick Grinnell (non-tenure), Assistant Professor, effective July 15, 1972, at an annual salary rate of \$15,000 payable from Cell Biology budget. (RBC No. 393)
20. Transfer funds in the amount of \$583.33 from Cell Biology Teaching Salaries, account No. [REDACTED], to Unallocated Faculty Salaries, account No. 207000, and change the status of Mary Jo Harrod (non-tenure), effective August 1, 1972, from Instructor at an annual salary rate of \$7,000 payable from Cell Biology budget, to Teaching Associate at an annual salary rate of \$10,440 payable from Internal Medicine Departmental Trust Fund. (RBC No. 420)
21. Transfer funds in the amount of \$4,500 from Unallocated Maintenance & Operation, account No. [REDACTED], to Cell Biology Maintenance & Operation, account No. [REDACTED], to cover anticipated expenses for the remainder of the fiscal year. (RBC No. 375)

INTERNAL MEDICINE

22. Appoint Robert L. North (non-tenure), Associate Professor, effective August 1, 1972, at an annual salary rate of \$30,000 payable from Presbyterian Hospital. (RBC No. 425)
23. Accept the resignation of Thomas Chick (non-tenure), Assistant Professor, effective August 12, 1972. Dr. Chick is budgeted at an annual salary rate of \$16,000 payable as follows: \$1,500 from Various Donors and \$14,500 from Parkland Memorial Hospital. (RBC No. 412)
24. Void RBC No. 280, dated March 28, 1972, for the appointment of James N. Gilliam (non-tenure), Assistant Professor, and transfer funds in the amount of \$3,333.32 from Internal Medicine Teaching Salaries, account No. [REDACTED], to Unallocated Faculty Salaries, account No. [REDACTED]. (RBC No. 402)
25. Change the source of salary of Joseph L. Goldstein (non-tenure), Assistant Professor, effective July 1, 1972, from an annual salary rate of \$25,000 from Internal Medicine budget to \$25,000 from USPHS 1 K4 GM-70,227. (RBC No. 389)
26. Change the status of Arnold H. Israelit (non-tenure), effective July 1, 1972, from Assistant Professor of Internal Medicine, at an annual salary rate of \$12,142.50 payable from Internal Medicine budget and \$12,142.50 paid direct by Veterans Administration Hospital, to Unpaid Faculty Status. (RBC No. 395)
27. Reappoint Ronald C. Prati (non-tenure), Clinical Assistant Professor, approximately 70%, for the period July 1, 1972 through August 31, 1972, at an annual salary of \$18,000 payable from Parkland Memorial Hospital Services. (RBC No. 421)

INTERNAL MEDICINE - continued

28. Appoint Randall Kent Holmes (non-tenure), Instructor, effective July 1, 1972, at an annual salary rate of \$16,000 payable as follows: \$10,000 from USPHS 5 T01 AI 00030 and \$6,000 from Various Donors. (RBC No. 401)

29. Transfer funds in the amount of \$400.00 from Unallocated Faculty Salaries, account No. [REDACTED] to Internal Medicine Teaching Assistants, account No. [REDACTED] and increase the annual stipend level of Henrik Westergaard, Fellow, effective July 1, 1972, from 1st year Fellow at \$8,500 from USPHS 1-F05-TW01808, to 2nd year Fellow at \$10,900 payable as follows: \$8,500 from USPHS 1-F05-TW01808, and \$2,400 from Internal Medicine budget. (RBC No. 374)

30. Transfer funds in the amount of \$1,100 from Unallocated Maintenance & Operation, account No. [REDACTED], to Internal Medicine Maintenance & Operation, account No. [REDACTED] to cover anticipated expenses for the remainder of the fiscal year. (RBC No. 384)

MICROBIOLOGY

31. Appoint Kathryn Voelker Holmes (non-tenure), Assistant Professor, effective August 1, 1972 at an annual salary rate of \$17,000 payable from USPHS 5 D08 PE-00026. (RBC No. 416)

NEUROLOGY

32. Change the source of salary of Hanna K. Ulatowska (non-tenure), Associate Professor, at an annual salary rate of \$18,000 as follows: For the period March 1, 1972 through May 31, 1972: From \$6,000 payable from Neurology budget, \$6,000 from Callier Hearing Center, and \$6,000 from U.T. Arlington IAC, to \$12,000 payable from U.T. Arlington IAC and \$6,000 from Callier Hearing Center. For the period June 1, 1972 through August 31, 1972: From \$12,000 payable from U.T. Arlington IAC and \$6,000 from Callier Hearing Center, to \$12,000 payable from Neurology budget and \$6,000 from Callier Hearing Center. (RBC No. 362)

33. Void RBC No. 360 dated June 26, 1972, for the resignation of Myra V. Charest (non-tenure), Assistant Professor of Nursing Education. (RBC No. 373)

34. Transfer funds in the amount of \$2,266.65 from Unallocated Faculty Salaries, account No. [REDACTED], to Neurology Teaching Salaries, account No. [REDACTED] and change the status and date of Leave of Absence without pay of Michael G. Greenlee, Jr. (non-tenure), as follows: from Instructor on Leave of Absence without pay, through June 13, 1972, at an annual salary rate of \$12,000 payable from Neurology budget, to Assistant Professor effective June 7, 1972, at an annual salary rate of \$20,000 payable from Neurology budget. (RBC No. 355)

OBSTETRICS & GYNECOLOGY

35. Transfer funds in the amount of \$4,666.66 from Unallocated Faculty Salaries, account No. [REDACTED], to Obstetrics & Gynecology Teaching Salaries, account No. [REDACTED], and appoint Uel D. Crosby (non-tenure), Associate Professor, effective July 1, 1972, at an annual salary rate of \$28,000 payable from Obstetrics & Gynecology budget. (RBC No. 404)

36. Transfer funds in the amount of \$3,333.32 from Unallocated Faculty Salaries, account No. [REDACTED], to Obstetrics & Gynecology Teaching Salaries, account No. [REDACTED], and appoint Duck Joon Choi (non-tenure), Assistant Professor, effective July 1, 1972 at an annual salary rate of \$20,000 payable from Obstetrics & Gynecology budget. (RBC No. 413)

37. Appoint Lola Darlene Page (non-tenure), Instructor, effective July 1, 1972, at an annual salary rate of \$18,000 payable from USPHS 06-H-000-074,040. (RBC No. 398)

38. Transfer funds in the amount of \$3,000 from Unallocated Faculty Salaries, account No. [REDACTED], to Obstetrics & Gynecology Teaching Salaries, account No. 205100, and appoint James R. Scott (non-tenure), Instructor, effective July 1, 1972, at an annual salary rate of \$18,000 payable from Obstetrics & Gynecology budget. (RBC No. 376)

OBSTETRICS & GYNECOLOGY - continued

39. Appoint Barry E. Schwarz (non-tenure), Assistant, 10%, effective July 1, 1972, at an annual salary of \$3,600 payable from USPHS 06-H-000-074,040. (RBC No. 394)
40. Appoint Robert C. Newman (non-tenure), Assistant, 25%, effective July 1, 1972, at an annual salary of \$3,600 payable from Departmental Trust Funds. (RBC No. 377)
41. Appoint Lionel Reiman (non-tenure), Assistant, 25%, effective July 1, 1972, at an annual salary of \$3,600 payable from Departmental Trust Funds. (RBC No. 378)

OPHTHALMOLOGY

42. Transfer funds in the amount of \$2,720.48 from Unallocated Faculty Salaries, account No. 207000, to Ophthalmology Teaching Salaries, account No. [REDACTED], and appoint Thomas R. Stevens (non-tenure), Assistant Professor, effective July 17, 1972, at an annual salary rate of \$22,000 payable from Ophthalmology budget. (RBC No. 408)
43. Transfer funds in the amount of \$3,333.32 from Unallocated Faculty Salaries, account No. [REDACTED], to Ophthalmology Teaching Salaries, account No. [REDACTED], and appoint John R. Welch (non-tenure), Instructor, effective July 1, 1972, at an annual salary rate of \$20,000 payable from Ophthalmology budget. (RBC No. 382)
44. Appoint Charles Kulick, Optician, effective August 1, 1972, at an annual salary rate of \$12,900 payable from Ophthalmology Departmental Trust Fund. (RBC No. 419)

PATHOLOGY

45. Transfer funds in the amount of \$156.12 from Unallocated Faculty Salaries, account No. [REDACTED], to Pathology Teaching Salaries, account No. [REDACTED], and amend Leave of Absence without pay for Bruce D. Fallis (tenure), Professor, from August 1, 1972 through August 13, 1972, to August 1, 1972 through August 11, 1972. Dr. Fallis is budgeted at an annual salary rate of \$32,000 payable as follows: \$29,000 from Pathology budget and \$3,000 from Parkland Memorial Hospital. (RBC No. 422)

PEDIATRICS

46. Accept the resignation of Paschal J. LaRuffa (non-tenure), Assistant Professor of Pediatrics & Instructor in Internal Medicine, effective July 14, 1972. Dr. LaRuffa is budgeted at an annual salary rate of \$21,700 payable from USPHS 06-H-000,079-06. (RBC No. 388)
47. Appoint William R. Hayden (non-tenure), Assistant, approximately 50%, effective July 1, 1972, at an annual salary of \$3,200 payable from Pediatrics budget. (RBC No. 381)
48. Appoint Jorge Howard, Jr. (non-tenure), Assistant, approximately 50%, effective July 1, 1972, at an annual salary of \$3,200 payable from Pediatrics budget. (RBC No. 385)
49. Increase the annual stipend level of George Alfred Monroe, Postdoctoral Fellow, effective July 1, 1972, from First Year Fellow at \$8,500 from Texas State Department of Health to Second Year Fellow at \$10,500 payable from Texas State Department of Health. (RBC No. 428)

PHYSIOLOGY

50. Appoint Eduard R. Kuhn (non-tenure), Visiting Professor, effective for the period July 1, 1972 through August 11, 1972, at an annual salary rate of \$6,000 payable from USPHS 5 R01 HD-05151. (RBC No. 406)
51. Reappoint Stuart A. Bergman, Jr. (non-tenure), Instructor, effective July 1, 1972, at an annual salary rate of \$9,520 payable from USPHS 2 P01 HL-06296, and grant Leave of Absence without pay effective August 18, 1972. (RBC No. 367)

PSYCHIATRY

52. Accept the resignation of Luis P. Garrigo (non-tenure), Assistant Professor, effective June 30, 1972. Dr. Garrigo is budgeted at an annual salary rate of \$23,000 payable as follows: \$14,000 from USPHS 5 E03 PE 00174 and \$9,000 from Psychiatry budget. (RBC No. 346)

53. Reappoint Judith H. Forgotson (non-tenure), Clinical Assistant Professor, 50%, effective July 1, 1972, at an annual salary of \$12,500 payable as follows: \$5,000 from USPHS 5 T01 MH-10856 and \$7,500 from USPHS 5 T02 MH-05928. (RBC No. 370)

RADIOLOGY

54. Change the source of salary of J. Edward Dowdey (non-tenure), Associate Professor, at an annual salary rate of \$20,000 effective July 1, 1972 from \$18,000 from Radiology budget and \$2,000 from Parkland Memorial Hospital, to \$12,000 from Radiology budget, \$2,000 from Parkland Memorial Hospital, and \$6,000 from USPHS 5 T01 CA-05136. (RBC No. 371)

55. Appoint F. Kathryn Edwards (non-tenure), Associate Professor, effective August 1, 1972, at an annual salary rate of \$27,000 payable from Children's Medical Center-Radiology fund. (RBC No. 390)

56. Erratum: From the docket of July 27, 1972, Amendments to 1971-1972 Budget, Item No. 27, regarding Mary Esther Gaulden should have read non-tenure.

SURGERY

57. Reappoint Bruce N. Epker (non-tenure), Assistant Professor of Oral Surgery, 20%, effective July 1, 1972 through August 31, 1972, at an annual salary of \$3,500 payable as follows: \$1,000 from Surgery budget and \$2,500 from USPHS 5 E03 PE 00174. (RBC No. 396)

58. Accept the resignation of James A. Holliday, Jr. (non-tenure), Assistant Professor of Otolaryngology, effective July 13, 1972. Dr. Holliday is budgeted at an annual salary rate of \$7,858.50 payable from USPHS 2 T01 NS-05600, with the remainder of his salary paid direct from Veteran's Administration Hospital. (RBC No. 386)

59. Appoint James W. Harrington, Jr. (non-tenure), Clinical Assistant Professor, 25%, effective July 1, 1972, at an annual salary of \$6,000 payable from USPHS 2 T01 NS-05600. (RBC No. 407)

ANIMAL HOSPITAL

60. Appoint Steven P. Pakes (tenure), Associate Professor of Comparative Medicine and Director of Animal Resources, effective August 1, 1972 at an annual salary rate of \$30,000 payable as follows: \$24,000 from Animal Hospital Unallocated Salaries and \$6,000 from USPHS 5 E03 PE 00174. (RBC No. 417)

PHYSICAL PLANT

61. Transfer funds in the amount of \$5,100 from Salaries to Maintenance & Operation in Physical Plant - Utilities. (RBC No. 431)

SPECIAL PROJECTS

62. Transfer funds in the amount of \$14,750 from Account No. 228005, Special Projects, to account No. 232105, Special Projects, Renovating Hoblitzelle Clinical Science Building, Rooms C-311, C-312, C-323, C-324, C-325, C-326 and C-326A, for Dr. Joseph L. Goldstein. (RBC No. 368)

63. Transfer funds in the amount of \$3,200 from account No. 228005, Special Projects, to account No. 228405, Special Projects, Renovating Hoblitzelle Clinical Science Building, Rooms C-302 and C-303 for Dr. Frank T. Kallus. (RBC No. 410)

64. Transfer funds in the amount of \$4,000 from account No. 228005, Special Projects, to account No. 228505, Special Projects, Renovating Hoblitzelle Clinical Science Building, Rooms C-216, C-217, and C-218, for Dr. Jonathan Uhr. (RBC No. 411)

SCHOOL OF ALLIED HEALTH PROFESSIONS

65. Transfer funds in the amount of \$210.10 from Unallocated Faculty Salaries, account No. [REDACTED], to School of Allied Health Professions - \$94.61 to account No. [REDACTED], Nutrition and Dietetics, and \$115.49 to account No. [REDACTED], Teacher Education, and appoint Frances F. Price (non-tenure), Assistant Professor of Rehabilitation Science, effective August 21, 1972, at an annual salary rate of \$16,000 payable as follows: \$8,894 from USPHS 1-001-AH-050632, \$3,200 from School of Allied Health Professions - Nutrition and Dietetics Budget and \$3,906 from School of Allied Health Professions - Teacher Education budget. (RBC No. 429)

66. Transfer funds in the amount of \$662.62 from Unallocated Faculty Salaries, account No. [REDACTED], to School of Allied Health Professions - Allied Health Teacher Education, account No. [REDACTED], and appoint E. Kathleen Davis (non-tenure), Instructor, effective August 15, 1972 at an annual salary rate of \$14,500, payable from School of Allied Health Professions - Allied Health Teacher Education budget. (RBC No. 426)

67. Appoint Maurine E. Giese (non-tenure), Instructor of Health Care Sciences, effective July 1, 1972, at an annual salary rate of \$13,000 payable from School of Allied Health Professions - Health Care Sciences. (RBC No. 383)

68. Transfer funds in the amount of \$1,852.17 from Unallocated Faculty Salaries, account No. [REDACTED], to School of Allied Health Professions - Health Care Sciences, account No. [REDACTED] and appoint Charles Claude Lewis (non-tenure), Instructor, effective July 10, 1972 at an annual salary rate of \$13,000 payable from School of Allied Health Professions - Health Care Sciences budget. (RBC No. 392)

69. Transfer funds in the amount of \$2,900 from Unallocated Maintenance & Operation, account No. [REDACTED], to School of Allied Health Professions Administration - Equipment, account No. [REDACTED]. (RBC No. 409)

VARIOUS

70. Transfer funds in the amount of \$19,600 from Unallocated Maintenance & Operation, account No. [REDACTED], to the following accounts: No. [REDACTED], Personnel, Equipment - \$1,400; No. [REDACTED], Business Affairs, Equipment - \$300; No. [REDACTED], Business Manager, Equipment - \$2,200; No. [REDACTED], Accounting, Maintenance & Operation - \$3,000; No. [REDACTED], Accounting Equipment - \$3,500; No. [REDACTED], Purchasing, Maintenance & Operation - \$600; No. [REDACTED], Purchasing, Equipment - \$300; No. [REDACTED], Workmen's Compensation Insurance - \$1,700; No. [REDACTED], Mail Service, Maintenance & Operation - \$5,000; and No. [REDACTED], Receiving, Equipment - \$1,600. (RBC No. 400)

71. Transfer funds in the amount of \$19,000 from the following accounts: \$5,000 from Account No. 200901, Personnel, Salaries; \$9,000 from account No. 201901, Data Processing, Salaries; and \$5,000 from account No. 201908, Data Processing Special Item; to account No. 207005, Unallocated Maintenance & Operation, a total of \$19,000. (RBC No. 399)

72. Transfer funds in the amount of \$12,991 from Unallocated Maintenance & Operation, account No. 207005, to the following accounts to cover charges for moving into the Basic Sciences Research Building: No. 204303, Biochemistry, Wages - \$754; No. 204305, Biochemistry, Maintenance & Operation - \$3,902; No. 204003, Cell Biology, Wages - \$853; No. 204005, Cell Biology - Maintenance & Operation - \$1,525; No. 205703, Pharmacology, Wages - \$235; No. 205705, Pharmacology - Maintenance & Operation - \$1,914; No. 206003, Physiology, Wages - \$1,231; and No. 206005, Physiology - Maintenance & Operation - \$2,577. (RBC No. 405)

THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL SCHOOL AT DALLAS

FEDERAL CONTRACTS AND GRANTS

BOARD OF REGENTS MEETING - OCTOBER 20, 1972

Approval is requested for the following:

DEPARTMENT OF THE ARMY

1. Research Contract DA-49-193-MD-2489, Modification No. 7
Administration Expenditures of Chairman of Subcommittee
on Nephrology of Advisory Committee to the Surgeon General
Dr. D. Seldin, M.D.
September 1, 1963 - August 31, 1969
Decrease in the original contract by \$654.07, leaving a
net contract amount of \$26,540.93
Dallas County
2. Research Contract DADA 17-72-C2145
Antibody Formation and Immunity
Dr. Jonathan W. Uhr, M.D.
August 1, 1972 - July 31, 1973
\$55,402.00
Dallas County

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE

National Institute of Arthritis, Metabolism & Digestive Diseases

3. Research Grant 5 R01 AM10073-08
Neurohumoral Control of the Anterior Pituitary
Dr. Samuel McCann, M.D.
September 1, 1972 - August 31, 1973
\$59,352.00
Dallas County
4. Research Grant 2 R01 AM03108-14
Intestinal Absorption and Metabolism of Lipids
Dr. John M. Johnston, PHD
September 1, 1972 - August 31, 1973
\$43,671.00
Dallas County
5. Training Grant 5 T01 AM05490-08
Graduate Training in Gastroenterology and Liver Disease
Dr. John S. Fordtran, M.D.
July 1, 1972 - June 30, 1973
\$102,316.00
Dallas County
6. Research Grant 1 R01 AM16188-01
Role of Cysteine Residues in Hemoglobins A, F, and S
Dr. Michael R. Waterman, PHD
June 1, 1972 - May 31, 1973
\$15,809.00
Dallas County

RSA - Division of Manpower Development

7. Training Grant 44-P-30213/6-01
Rehabilitation Education for the Socially and Culturally
Handicapped
Dr. Donald A. Pool, PHD
July 1, 1972 - June 30, 1973
\$37,225.00

Amendment No. 1 - To correct addition error in above grant.

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE - continued

National Heart and Lung Institute

8. Research Grant 5 R01 HL14355-02
Left Ventricular Function in Exercise; a continuation of
Research Grant HL14355-02, "Left Ventricular Function in
the Exercising Dog"
Dr. Lawrence D. Horwitz, M.D.
September 1, 1972 - August 31, 1974^s
\$16,381.00
Dallas County
9. Research Grant 5 P17 HL14187-02
University of Texas Center for Lung Research in Dallas
Dr. Sami I. Said, M.D.
June 1, 1972 - November 30, 1972
\$227,519.00
Dallas County
10. Research Grant 5R01 HL14775-02
Mechanisms of Drug Action in Vascular Smooth Muscle
Dr. George B. Weiss, PHD
September 1, 1972 - August 31, 1973
\$21,822.00
Dallas County
11. Training Grant 2 T01 HL05469-13
Biochemical Orientation of Cardiovascular Investigation
Dr. Donald W. Seldin, M.D.
July 1, 1972 - June 30, 1973
\$125,928.00
Dallas County

National Institute of General Medical Sciences

12. Research Grant 5 P11 GM16488-05
Hepatic Microsomal Drug Oxidation
Dr. Ronald W. Estabrook, PHD
September 1, 1972 - August 31, 1973
\$213,987.00
Dallas County
13. Research Fellowship Award 4 F03 GM52199-02
Special Supply Allowance
Dr. Lewis M. Flint, Jr., M.D.
July 1, 1972 - September 30, 1972
\$250.00
Dallas County
14. Development Award 1 K04 GM70539-01
Metabolic and Hematological Alterations after Trauma
Dr. Peter W. Curren, M.D.
September 1, 1972 - August 31, 1973
\$25,000.00
Dallas County
15. Research Grant 1 R01 GM19571-01
Metabolism and Nutrition in Burns and Trauma
Dr. Peter W. Curren, M.D.
September 1, 1972 - August 31, 1973
\$26,996.00
Dallas County
16. Research Grant 2 R01 GM05428-15
Evaluation of Saline Solutions in Therapy of Shock
Dr. George T. Shires, M.D.
September 1, 1972 - August 31, 1973
\$51,592.00
Dallas County

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE - continued

National Institute of General Medical Sciences

17. Research Grant 1 RO1 GM19258-01
Regulation of Gene Expression by Sex Hormones
 Dr. Joseph L. Goldstein, M.D.
 June 1, 1972 - July 31, 1973
 \$70,000.00
 Dallas County

National Cancer Institute

18. Training Grant 2 T01 CA05136-11
Graduate Training in Radiation Biology and Radiological Physics
 Dr. Frederick J. Bonte, M.D.
 July 1, 1972 - June 30, 1973
 \$47,885.00
 Dallas County
19. Research Grant 5 RO1 CA12089-02
Immunology of Chemically Modified Cancer Cell
 Dr. Morton D. Prager, PHD
 June 1, 1972 - May 31, 1973
 \$16,711.00
 Dallas County
20. Research Grant 1 RO1 CA13371-01
Preclinical Study of Radiobiology of Negative Pions
 Dr. Donald E. Carlson, PHD
 September 1, 1972 - August 31, 1973
 \$36,761.00
 Dallas County
21. Research Grant 7 RO1 CA14517-01
Cell Fusion: Mechanism and Oncogenic Significance
 Dr. Kathryn V. Holmes, PHD
 September 1, 1972 - August 31, 1973
 \$31,500.00
 Dallas County
22. Research Grant 1 RO1 CA13296-01
Selective Activation of Pyrimidine Antimetabolism
 Dr. Lon E. Rogers, M.D.
 August 1, 1972 - July 31, 1973
 \$9,480.00
 Dallas County

National Library of Medicine

23. Research Grant 1 GO4 LM 01737-01
Increasing Periodical Strength in the Health Library
 Dr. Donald D. Hendricks, PHD
 June 27, 1972 - May 31, 1973
 \$12,257.00
 Dallas County
24. Library Grant 1 GO4 LM 01604-01
Regional Medical Library Support (Training Activities)
 Dr. Donald D. Hendricks, PHD
 June 15, 1972 - May 31, 1973
 \$25,920.00
 Dallas County

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE -continued

National Institute of Allergy and Infectious Diseases

25. Training Grant 2 T01 A100337-06
Pediatric Infectious Disease and Immunology
 Dr. Heinz F. Eichenwald, M.D.
 July 1, 1972 - June 30, 1973
 \$58,184.00
 Dallas County
26. Research Grant 5 R01 AI02316-15
Experimental Rabies Infection in Chiroptera
 Dr. S. Edward Sulkin, PHD
 September 1, 1972 - August 31, 1973
 \$16,147.00
 Dallas County
27. Research Grant 1 R01 AI11164-01
Biosynthesis of Immunoglobulin
 Dr. Jonathan W. Uhr, M.D.
 September 1, 1972 - August 31, 1973
 \$178,775.00
 Dallas County

National Institute of Mental Health

28. Training Grant 5 T01 MH06777-15
Clinical Psychology
 Dr. Maurice Korman, PHD
 July 1, 1972 - June 30, 1973
 \$19,100.00
 Dallas County
29. Training Grant 5 T02 MH05928-22
Undergraduate Psychiatry
 Dr. A. W. De Loach, M.D.
 July 1, 1972 - June 30, 1973
 \$41,106.00
 Dallas County

Bureau of Health Manpower Education

30. Training Grant 1 A15 PE 00034-01
Teacher Training for Medical School Faculty
 Dr. Fred L. Christen, PHD
 July 1, 1972 - June 30, 1973
 \$43,524.00
 Dallas County
31. Capitation Grant 5 E03 PE00174-07
Health Professions Capitation Grant Program
 Dr. Charles C. Sprague, M.D.
 July 1, 1972 - June 30, 1973
 \$958,350.00
 Dallas County
32. Student Assistance Program Award 1 7 53 9014 03 1
Health Professions Scholarship and Student Loan Program
 Dr. Charles C. Sprague, M.D.
 July 1, 1972 - June 30, 1973
 \$214,185.00
 Dallas County

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE - continued

National Institute of Arthritis, Metabolism & Digestive Diseases

33. Training Grant 5 T01 AM05028-17
Diabetes Renal and Metabolic Disorders
 Dr. Donald W. Seldin, M.D.
 July 1, 1972 - June 30, 1973
 \$75,650.00
 Dallas County
34. Research Grant 5 ROI AML4677-03
Transport Properties of Isolated Perfused Nephrons
 Dr. Juha P. Kokko, PHD
 September 1, 1972 - August 31, 1973
 \$27,240.00
 Dallas County

Fogarty International Center

35. Fellowship Award 1 F05 TW01999-01
International Research Fellowship Award
 Dr. John C. Porter, PHD
 September 15, 1972 - June 13, 1973
 \$10,365.00
 Dallas County

Maternal and Child Health Service

36. Training Grant 12 HS 248
Training in Comprehensive Health Services for Children
 Budget Revision No. 2. Amount approved for the
 budget period July 1, 1971 through June 30, 1972
 remains \$89,584.00. Dr. H. F. Eichenwald, M.D.
 Dallas County

National Institute of Neurological Diseases and Stroke

37. Research Grant 5 ROI NS08618-03
Effects of Drugs on Thermoregulatory Mechanisms
 Dr. Wesley G. Clark, PHD
 September 1, 1972 - August 31, 1973
 \$16,409.00
 Dallas County

Rehabilitation Services Administration

38. Training Grant 44-P-30064/6-08
Teaching Grant and Traineeships in Rehabilitation Medicine
 Dr. Alexander D. Raptou, M.D.
 July 1, 1972 - June 30, 1973
 \$40,744.00
 Dallas County

National Institutes of Health

39. Contract NIH-73-C-10-CC
Delivery of Purified Cholera Toxin
 Dr. Richard Finkelstein, PHD
 July 1, 1972 - March 31, 1973
 5.0 grams at \$4.00 per mg.
 Dallas County

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE - continued

Bureau of Higher Education

40. National Defense Student Loan Program
Dr. Bryan Williams, M.D.
July 1, 1972 - June 30, 1973
\$11,817.00
Dallas County
41. College Work-Study Program
Dr. John W. Schermerhorn, PHD
July 1, 1972 - June 30, 1973
\$3,997.00
Dallas County

Maternal and Child Health Service

42. Training Grant 12 HS 328
Diagnostic & Evaluation Center for Mentally Retarded Children
Dr. Doman Keele, M.D.
July 1, 1972 - June 30, 1973
\$163,448.00
Dallas County

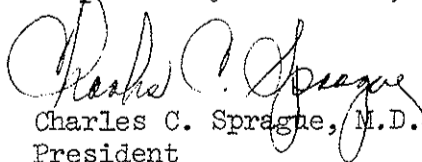
NATIONAL SCIENCE FOUNDATION

43. Research Grant GB-35262
Research on Membrane Proteins and Models
Dr. Robert M. Dowben, M.D.
September 1, 1972 - February 28, 1975
\$63,100.00
Dallas County
44. Research Grant GB-30775X1
Studies on Inapparent and Latent Viral Infections;
Studies on Temperature-Induced Alterations in Animal Viruses
Dr. S. Edward Sulkin, PHD
September 1, 1972 - August 31, 1973
\$23,800.00
Dallas County

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

45. Contract No. NAS-2-3082, Modification No. 10
Design, Development, Fabrication and Test of Flight
Hardware for Biosatellite Experiment P-1084
Title to equipment listed in Attachment No. 1 is transferred to
Southwestern Medical School at Dallas
Dr. P. O'B. Montgomery, M.D.
\$8,134.11 - Value of Property
Dallas County

Respectfully submitted,



Charles C. Sprague, M.D.
President

THE UNIVERSITY OF TEXAS AT SAN ANTONIO
Office of the President
October 20, 1972

Chancellor Charles A. LeMaistre
The University of Texas System
Austin, Texas 78712

Dear Chancellor LeMaistre:

The following docket for The University of Texas at San Antonio is submitted for your approval and submission to the Board of Regents at its meeting on October 20, 1972.

THE UNIVERSITY OF TEXAS AT SAN ANTONIO 1973-1974 GRADUATE CATALOG:
Approval is requested for the publication of the 1973-1974 Graduate Catalog as shown on the following pages SA-2 through SA-170. This catalog covers the summer of 1973 in addition to the 1973-1974 fiscal year.

(A design cover will be used.)

T H E U N I V E R S I T Y O F T E X A S

A T S A N A N T O N I O

P R O P O S E D

G R A D U A T E C A T A L O G

1 9 7 3 - 1 9 7 4

Subject to approval by:

Board of Regents

The University of Texas System

THE UNIVERSITY OF TEXAS

AT SAN ANTONIO

GRADUATE

CATALOG

1973 - 1974

Published by The University of Texas at San Antonio

Volume 1

November, 1972

Number 1

Second Class Postage Paid at San Antonio, Texas

INSIDE COVER

Statement on Equal Educational Opportunity

With respect to the admission and education of students, with respect to the availability of student loans, grants, scholarships, and job opportunities, with respect to the employment and promotion of teaching and non-teaching personnel, and with respect to the student and faculty activities conducted on premises owned or occupied by the University, The University of Texas at San Antonio shall not discriminate either in favor of or against any person on account of sex, race, creed, color, or national origin.

Foreword

An Open Letter to Prospective Students:

This Graduate Catalog is the first official academic publication of The University of Texas at San Antonio. As such, it does not necessarily reflect in all details either the format or content of succeeding editions, when the University will have become fully operational on its permanent campus. It does, however, contain the information necessary for a prospective graduate student to plan his particular degree programs with the aid of administrative and faculty advice and to become acquainted with many of the procedures and regulations that are vital to the efficient service the University will strive to provide.

As a new institution, operating in temporary facilities for its first year, the University will be undergoing a type of learning process along with its initial student body. Consequently, it is to be expected that modifications will be made in some of the operational procedures and regulations, always in an effort to serve the students more effectively and to function with greater administrative efficiency.

This Catalog is of great importance to the beginning UTSA graduate student; of equal importance is the availability of the University's staff for personal consultation regarding any questions whatsoever. It is my personal commitment that UTSA be a student-oriented institution in the best possible sense of the term, and I encourage you to telephone or to visit personally those members of our staff who can be most helpful in connection with your interest in UTSA.

A. B. Templeton
President

TABLE OF CONTENTS

	Page
Foreword	v
Board of Regents	vi
Officers of Administration	vii
University Calendar	viii
I. GENERAL INFORMATION	
History	1
Purpose and Philosophy	2
Organization	3
II. ADMISSION REQUIREMENTS, GRADUATE	
General	4
Re-admission	5
International Students	6
Summer Transient Students	7
Application Dates	8
Admission Procedures	9
III. EXPENSES	
Tuition	10
Fees	11
Exemption from Tuition and Fees	12
Refund Policy	13
IV. ACADEMIC REGULATIONS	
Registration	14
Adding and Dropping	15
Class Attendance Policy	16
Grade Reports	17
Applying for Graduation	18
Course Numbering System	19
Student Classification	20
Grading System	21
Academic Dismissal	22
Transcripts	23
V. GENERAL REGULATIONS, MASTER'S DEGREES	
Entering Examinations	24
Transfer of Credit	25
Correspondence Courses	26
Extension Courses	27
Courses Counted for Another Degree	28
Time Limits	29
Final Examination	30
Candidacy Requirements	31
Application for Candidacy	32
Options for Master's Degree	33
Additional Regulations	34
Requirements for Thesis	35

VI. GRADUATE DEGREE PROGRAMS

College of Business	College of Multidisciplinary Studies
Master of Business Administration	Master of Arts Degree in
Course Descriptions	Advanced Studies in Education
	Master of Arts Degree in
College of Fine and Applied Arts	Bicultural-Bilingual Studies
Course Descriptions	Master of Science Degree in
	Bicultural-Bilingual Studies
College of Humanities and Social Sciences	Master of Arts Degree in
Master of Arts Degree in English	Environmental Management
Master of Arts Degree in Spanish	Master of Science Degree in
Course Descriptions	Environmental Management
	Course Descriptions
	College of Sciences and Mathematics
	Master of Science Degree in
	Mathematics and Systems Design
	Course Descriptions
Appendix-Residence Regulations	
Index	
Directory for Correspondence	
Map of Temporary Location of UTSA	

THE UNIVERSITY OF TEXAS SYSTEM

BOARD OF REGENTS

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Frank N. Ikard, Vice-Chairman

Betty Anne Thedford, Secretary

MEMBERS

Terms Expire January 1975

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Joe M. Kilgore Austin

John Peace San Antonio

Terms Expire January 1975

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Jenkins Garrett Fort Worth

Dan C. Williams Dallas

Terms Expire January 1977

Mrs. Lyndon B. Johnson Stonewall

A. G. McNeese, Jr. Houston

Joe T. Nelson, M.D. Weatherford

SYSTEM OFFICERS

Charles A. LeMaistro, Chancellor

E. D. Walker

Deputy Chancellor for Administration

Kenneth H. Ashworth

Vice Chancellor for Academic Affairs

OFFICERS OF ADMINISTRATION

THE UNIVERSITY OF TEXAS AT SAN ANTONIO

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Louis J. Rodriguez.....Vice President for Academic Affairs
and Dean of Faculties
William C. Lindley.....Vice President for University Affairs
G. Charles Franklin.....Vice President for Fiscal Affairs
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Jacinto Quirarte.....Dean, College of Fine and Applied Arts
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Social Sciences
.....Dean, College of Multidisciplinary
Studies
.....Dean, College of Sciences and
Mathematics
Richard L. Lewis.....Director of Admissions and Registrar
Michael F. Kelly.....Director of Libraries

1973

JANUARY						
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UNIVERSITY CALENDAR

Summer Session 1973First Session

June 4 Monday. Registration.

June 5 Tuesday. Classes begin.

June 6 Wednesday. Last day to drop a course without a grade.
Last day to add a course. Last day for registration.

June 8 Friday. Last day for students to withdraw and to receive
a partial refund.

June 28 Wednesday. Last day to drop a course.

July 4 Wednesday. Holiday.

July 12-13 Thursday-Friday. Final examinations for classes in first
summer session.

July 13 Friday. End of first summer session.

Second Session

July 16 Monday. Registration.

July 17 Tuesday. Classes begin.

July 18 Wednesday. Last day to drop a course without a grade.
Last day to add a course. Last day for registration.

July 20 Friday. Last day for students to withdraw and to receive
a partial refund.

August 8 Wednesday. Last day to drop a course.

August 23-24 Thursday-Friday. Final examinations for classes in second
summer session.

August 24 Friday. End of second summer session.

UNIVERSITY CALENDAR

Fall Semester 1973

September 4-5	Tuesday-Wednesday. Registration.
September 6	Thursday. Classes begin.
September 11	Tuesday. Last day to drop a course without a grade. Last day to add a course. Last day of registration.
September 19	Wednesday. Last day for students to withdraw and to receive a partial refund.
November 22-23	Thursday-Friday. Thanksgiving Holidays.
November 29	Thursday. Last day to drop a course.
December 20-21	Thursday-Friday. Final examinations.
December 21	Friday. Semester closes.

Spring Semester 1974

January 14-15	Monday-Tuesday. Registration.
January 16	Wednesday. Classes begin.
January 21	Monday. Last day to drop a course without a grade. Last day to add a course. Last day for registration.
January 29	Tuesday. Last day for students to withdraw and to receive a partial refund.
April 11-12	Thursday-Friday. Easter Holidays.
April 18	Thursday. Last day to drop a course.
May 2-3	Thursday-Friday. Final examinations.
May 3	Friday. Semester closes.

UNIVERSITY CALENDAR

Summer Session 1974First Session

June 3 Monday. Registration.

June 4 Tuesday. Classes begin.

June 5 Wednesday. Last day to drop a course without a grade.
Last day to add a course. Last day of registration.

June 7 Friday. Last day for students to withdraw and to
receive a partial refund.

June 28 Friday. Last day to drop a course.

July 4 Thursday. Holiday.

July 11-12 Thursday-Friday. Final examinations for classes in
first summer session.

July 12 Friday. End of first summer session.

Second Semester

July 15 Monday. Registration.

July 16 Tuesday. Classes begin.

July 17 Wednesday. Last day to drop a course without a grade.
Last day to add a course. Last day for registration.

July 19 Friday. Last day for students to withdraw and to
receive a partial refund.

August 9 Friday. Last day to drop a course.

August 22-23 Thursday-Friday. Final examinations for classes in
second summer session.

August 23 Friday. End of second summer session.

I. GENERAL INFORMATION

History

On June 5, 1969, legislation was signed into law creating The University of Texas at San Antonio as a semi-autonomous component institution of The University of Texas System. The creation of UTSA (along with two other components: The University of Texas at Dallas and The University of Texas of the Permian Basin) marked the first time in over forty years that the State of Texas has established a completely new public institution of higher learning serving both undergraduate and graduate students almost from its inception. The enabling legislation explicitly directed that UTSA offer "courses leading to such customary degrees as are offered at leading American universities . . . bachelor's, master's, and doctor's degrees and their equivalent," and furthermore that this University be "one of the first class."

The transition from abstraction to reality actually began in May, 1970, when the Board of Regents of The University of Texas System accepted the gift of a permanent site for the UTSA campus: approximately 600 acres of rolling, wooded land located sixteen miles northwest of the city center of San Antonio. The Regents then appointed the first President of The University of Texas at San Antonio, Dr. Arleigh B. Templeton, who shortly thereafter established The University's first administrative and planning offices in the former Maison Blanche building on the grounds of HemisFair Plaza.

By the end of 1970, a master conceptual plan for the permanent campus had been completed and given the Regents' approval. By June, 1971, this concept

had been translated into final plans and specifications for the first seven permanent buildings of the campus. Upon completion of site development work, construction contracts were awarded in May, 1972, with a schedule calling for completion in May, 1974.

In January, 1972, new, temporary administrative quarters were acquired in northwest San Antonio, where they will remain until completion of the permanent campus. Preliminary programming and structuring of the University, by its staff and a slate of distinguished consultants, culminated in the spring of 1972 with approval by the Regents and the Coordinating Board of the University's proposed degree programs and academic organization.

Although the first construction phase of the permanent campus is not scheduled for completion until 1974, the University will open to graduate students in the summer of 1973. To accommodate the opening enrollment in selected programs, a building is being constructed adjacent to the present administrative offices in the Koger Executive Center near the intersection of Loop 410 and Babcock Road; it will be ready for occupancy in May, 1973. The programs to be implemented in this facility are the central concern of this Catalog.

Purpose and Philosophy

The University of Texas at San Antonio must--as must any great institution of higher learning--endeavor to be multi-purpose in its design in order to serve multiple constituencies. Of first concern are its students, as a collection of individuals rather than a student "body." Each student's potential for development--professional, creative, intellectual, and even

social--must be nourished not only with expertise but equally with sympathy and with respect for individuality. It is in this sense that UTSA will be a "student-oriented" institution.

To achieve this purpose, the University is committed to flexibility in administrative and programmatic organization. Its faculty will be selected, above all else, on the basis of excellence in teaching, which is to be an institutional hallmark. Embodied in this philosophy is the concept of teaching, not as the mechanical instillation of knowledge, but as assistance to learn. The University recognizes that change is a characteristic of society in general and therefore of the needs of students as part of that society. It pledges itself to innovation, not for its own sake, but to achieve, through experimentation with instructional methods, organization, and objectives, a greater degree of success in guiding students in their development.

The concept of flexibility is also manifested in a multidisciplinary approach to instruction. By avoiding excessive departmentalization, the University hopes to promote with greater ease the multidisciplinary atmosphere representative of a well-integrated and intellectually alive academic community. In answer to youth's concern about the "relevancy" of present-day higher education, UTSA will strive to eliminate the isolation of academic disciplines one from another; to prevent the entrenchment of divisional self-interests; and conversely to promote greater intellectual reciprocity among all components of the University. The fulfillment of such an objective promises a corollary advantage: the more efficient and effective utilization of all the University's resources.

As students represent one constituency of a university, the faculty to no lesser degree, represents another. UTSA promises its faculty intellectual freedom in return for intellectual responsibility and enthusiasm. The University asserts that a "community of scholars" does indeed refer to students and faculty together; that faculty should find in the university environment stimulation towards self-development; that the formal academic process is alive only when it enables the faculty to learn from, as well as impart knowledge to, their students. In this spirit, the University will regard research activities primarily as a vehicle for faculty-student interaction and cooperation in pursuit of shared achievement.

Universities are frequently identified with their constituencies in the geographical sense. UTSA as an institution will be concerned with its "image," not in a superficial way but in terms of the underlying flavor of its academic community and its larger public obligations. While striving to merit and to achieve ultimate recognition as a significant university from the national perspective, it will also strive in various ways to reflect and to serve the special characteristics of the Southwest, the State of Texas, and South and Southwest Texas as distinctive regions. This can be accomplished through special resources in the fine arts and crafts, music, literature, social sciences, languages, and various international or intercultural studies relating especially to Mexico and other Latin American nations. UTSA will, in every way possible, endeavor to be broadened, not restricted, by regional identification.

Finally, a university must enjoy a unique relationship with the community in which it is immediately located. The urban university, more than any other, has broad obligations to serve and rich opportunities to be served by the local community. The success of UTSA will, in no small measure, be determined by the pervasiveness of university-community cooperation. Mutual accessibility of library resources; the provision of internships with local professions and businesses; a dynamic program of institutes, seminars, and special courses; exchange in the arts and other cultural activities; and the utilization of local, non-university persons of special talents and abilities to enrich classroom instruction--all these are indicators of an urban university's role as a major cultural and community center.

Organization

The University of Texas at San Antonio is a component institution of The University of Texas System. Its government is vested in the nine-member Board of Regents of The University of Texas System, whose members are appointed by the Governor biennially, with the advice and consent of the Senate, for six-year staggered terms.

The Board of Regents delegates normal administrative authority to the Chancellor of The University of Texas System. The administrative authority of each component institution, such as The University of Texas at San Antonio, is in turn delegated to the President of that component.

Administration of the instructional operations of the University is the responsibility of the Vice President for Academic Affairs and Dean of Faculties, and under his leadership the Deans of the five Colleges of the University. Instructional programs are organized within the following format:

College of Business

Division of Accounting and Business Data Systems
 Division of Economics and Finance
 Division of Management

College of Fine and Applied Arts

Division of Art and Design
 Division of Music

College of Humanities and Social Sciences

Division of English Language, Literatures, and Linguistics
 Division of Foreign Languages, Literatures, and Linguistics
 Division of Social Sciences

College of Multidisciplinary Studies

Division of Advanced Studies in Education
 Division of Bicultural-Bilingual Studies
 Division of Certificate Programs in Education
 Division of Continuing Education
 Division of Environmental Studies

College of Sciences and Mathematics

Division of Allied Health Professions
 Division of Earth and Life Sciences
 Division of Mathematics and Systems Design
 Division of Physical Sciences

The University of Texas at San Antonio does not have a Graduate Dean or a Graduate School as a distinct administrative unit; direction of graduate studies is the responsibility of the Vice President for Academic Affairs and the individual Deans of the Colleges in which graduate degree programs are offered.

Calendar

The University operates on the semester system in accordance with the standard calendar of state-supported institutions of higher education in Texas. An academic year consists of two semesters with beginning and ending dates as specified in the University Calendar. Two summer sessions are also conducted, with credit awarded in semester hours.

Accreditation

The University of Texas at San Antonio has been designated a Correspondent of the Southern Association of Colleges and Schools, a classification which, for new institutions, reflects intent to work at all possible speed towards full accreditation and is based on evidence of sound planning and the resources to implement such plans.

II. ADMISSION REQUIREMENTS

GRADUATE

General¹

An applicant for admission to a graduate program must: (1) hold a Bachelor's degree from an accredited college or university in the United States or proof of equivalent training at a foreign institution, (2) satisfy the grade point requirements specified below, (3) have completed a minimum of 18 semester hours (12 of which must be upper-division) in the area in which the graduate degree is sought,² (4) submit scores from the Graduate Record Examination³ (Aptitude Test)--applicants for the MBA program are required to submit scores from the Admission Test for Graduate Study in Business in lieu of the GRE, and (5) have demonstrable writing proficiency.

An applicant with a "B" (3.0) average on all work of upper-division (junior and senior) and graduate level previously taken will be considered to have satisfied the minimum grade point requirements for admission to a graduate program. Some applications showing less than a "B" average may be accepted upon special recommendation of the academic Deans. In such cases, standardized or University examinations may be required and admission may be with conditions.

¹Some graduate degree programs specify additional admission requirements. Refer to the specific degree descriptions for any admission requirements in addition to the University-wide requirements listed here.

²For degree programs which are multidisciplinary in nature, an individual review of the applicant's background will be made in order to ensure adequate preparation for graduate study.

³Information on the GRE and applications for the tests, may be obtained from Educational Testing Service, Box 1502, Berkeley, California 94701. For the ATGSB, the address is Educational Testing Service, Princeton, New Jersey 08540. The institution code for UTSA is 6919-5 for the GRE and R6919 for the ATGSB.

Students who desire to work towards graduate degrees in any area in which their undergraduate training is insufficient to permit full admission may be admitted with the understanding that they must undertake course work and other study to make up the deficiencies noted by the Graduate Advisor, and that such make-up work may be in addition to the regular degree requirements. When a student with less than the minimum grade point average is admitted on a conditional basis, special conditions may be assigned regarding the number of semester hours to be taken and a specific grade point average to be maintained. If these conditions are not met, the student may be barred from continuation in the graduate program.

Enrollment in Graduate Courses Without Admission to a Graduate Program

Students who do not wish to enter a graduate program or who have been denied admission to it may apply for admission as a special student with the classification "post-baccalaureate." Post-baccalaureate students are eligible to take any courses for which they have the prerequisites, including graduate level courses, provided they have the approval of the instructors. Credit earned as a post-baccalaureate student can be applied toward a Master's degree when approved by the Graduate Advisor and Dean.

Students seeking admission as post-baccalaureate students are not required to meet the requirements for admission to a graduate degree program, but must hold a baccalaureate degree from an accredited college or university and be in good standing at the last institution attended. Such students who later wish to enter a graduate degree program must apply to the Admissions Office and meet all requirements for admission to a graduate program.

Re-Admission

Students, other than summer transient students, who have previously been admitted and registered at The University of Texas at San Antonio as resident students and were enrolled within 12 months prior to the beginning of any semester or summer session and who are scholastically eligible to return may re-enroll without applying for re-admission. Former students who have not been enrolled within 12 months prior to the anticipated date of return must submit an application for re-admission. The application form is available in the Admissions Office.

All former students returning to UTSA who have attended other collegiate institutions since they were last enrolled at UTSA must submit an official transcript from each collegiate institution attended since they were last enrolled.

Eligibility for re-admission for any former student will depend on the academic status at the conclusion of the student's last UTSA enrollment and any subsequent college work attempted.

International Students

The following admission requirements pertain to all applicants for admission who are not citizens of the United States and are in the United States on a student visa or visa other than one entitling them to immigrant status.

All applicants for admission as international students must:

1. Meet the admission requirements for all graduate students.
2. Submit a letter guaranteeing the student's ability to pay all expenses while a student at the University. The letter may be

sent from a parent or guardian, a bank or other reliable institution, or a United States citizen who will accept responsibility for the student's financial needs.

3. Submit proof of adequate hospitalization insurance.
4. Submit scores from the Test of English as a Foreign Language (TOEFL). (The UTSA code is 6919.)

Subsequent English tests may be required upon arrival at the University which will be used to validate the TOEFL score and for placement purposes. Students may be denied permission to register for credit until the level of English language proficiency is satisfactory.

TOEFL scores are not required for students from Australia, the British Isles, Canada and New Zealand, if their native language is English, or United States high school graduates or graduates from accredited United States colleges with Bachelor's or Master's degrees.

5. International students will not be admitted with post-baccalaureate status; such students must be seeking a graduate degree at UTSA.

The above admission criteria serve as guidelines for admission for international students according to various classifications. All applicants will have their credentials examined on an individual basis with admission being granted only to those who show promise of success in university study in the United States and particularly at The University of Texas at San Antonio.

Summer Transient Students

A student who intends to register for courses in the summer session only and who does not intend to work toward a degree at The University of Texas at San Antonio but will transfer the credit elsewhere should apply to the Registrar for admission as a summer transient student. A degree statement and a statement of standing from the institution last attended will be required to support the application for admission.

Summer transient students may register for any courses in which they have the prerequisites and in which space is available. Students registered in this capacity cannot be permitted to enroll in subsequent semesters unless they have been admitted as a regular student. To be admitted as a regular student, the summer transient student must apply for regular student status through the Admissions Office and meet the University's admission requirements.

Application Dates

Students applying for admission as graduate or post-baccalaureate students may apply for admission according to the schedule below. Application forms and instructions will be available from the Admissions Office beginning with the "earliest date to apply" indicated below. The completed application form and all required supporting documents must be on file with

A student who is accepted for admission to The University of Texas at San Antonio for a given semester or summer session and does not register, must re-apply for admission. A subsequent application for admission must be in accordance with current admission requirements. New transcripts, test scores, and all other supporting documents will be required since files for admitted students who do not register are not retained.

the Admissions Office no later than the "last date to apply" shown below.

<u>Term</u>	<u>Earliest Date to Apply</u>	<u>Last Date to Apply</u>
Summer Session I	January 15	May 15
Summer Session II	January 15	June 30
Fall Semester	February 15	August 15
Spring Semester	August 1	December 31

Admission Procedure

The procedure to be followed in applying for admission will be explained on the Application for Admission form. Each applicant for admission is individually responsible for making sure that all required support documents (e.g., application form, test results, required transcripts, immunization record, etc.) are on file in the Admissions Office, since admission will not be granted until the applicant's file is complete.

III. EXPENSES*

TUITION

Pursuant to House Bill 43, 62nd Legislature, tuition for all students registered at UTSA will be as follows:

Residents of Texas pay tuition at the rate of \$4.00 per semester hour of credit; a minimum tuition of \$50.00 per semester and a minimum of \$25.00 per six weeks summer session.

Nonresidents (U.S. Citizens). Nonresidents who are citizens of the United States will be charged tuition at the rate of \$40.00 per semester hour of credit for which they are enrolled.

Foreign Students will be charged tuition at the rate of \$14.00 per semester hour of credit for which they are enrolled with a minimum of \$200.00 per semester; a minimum of \$100.00 per six weeks session.

Exception: Tuition for resident or nonresident students registered in thesis credit only, and in those instances where such credit is the final credit-hour requirement for the degree in progress, is \$12.00 for residents of Texas and \$50.00 for nonresidents (U.S. citizens and international students).

*All tuition charges and fees are subject to change without notice.

A student is not registered and is not entitled to University privileges until all tuition and fees have been paid. Auditors pay the same tuition and fees as those students enrolled on a credit basis.

RESIDENCE REGULATIONS

A student entering The University of Texas at San Antonio for the first time, or a student re-entering The University after an absence of more than one semester, must file a completed residence questionnaire. The student's status as a resident or nonresident will be made in accordance with Chapter 54, Subtitle A, Title 3 of the Texas Education Code (a detailed description of the residence regulations is in the Appendix of this Catalog). If the applicant is in any doubt about his status, he should consult the Director of Admissions and Registrar. Students who are legally classified as nonresidents of Texas must be prepared to pay the required tuition at the time of registration.

FEES*Student Activity Fee

Every student registered at The University of Texas at San Antonio is required to pay a student activity fee of \$12.00 for each semester and \$4.00 for each six weeks summer session.

Graduation Fee

A graduation fee of \$5.00 is required of all candidates for graduation. A receipt showing payment of this fee must be presented

*The fees cited in this section are not necessarily typical of the fees which will be assessed students when the University is on its permanent campus. The fees in this section take into consideration the limited facilities and activities due to the University's operating in a temporary location.

to the Registrar at the time the application for the degree is filed. The graduation fee is not refundable.

Late Registration Fee

A late registration fee of \$5.00 will be charged for the first day of late registration and an additional \$2.50 per day thereafter. The late registration fee is not refundable.

Bad Checks

A charge of \$5.00 will be assessed for each returned check to offset the cost of handling dishonored checks.

Replacement of Student Identification Card

A charge of \$2.00 will be assessed for the issuance of a duplicate student identification card. This charge must be paid at the time the application for the duplicate is made.

Transcripts

A charge of \$1.00 per UTSA transcript will be made. This fee must be paid before a transcript is issued.

Penalty for Payment of Tuition Under Incorrect Residency Classification

The responsibility of registering under the proper residence classification is placed upon the student. It is his duty at or before registration, if there is any possible question of his right to legal residence in Texas, to raise the question with the Registrar and resolve such questions prior to registration. There can be no change in residence classification except upon the expressed authorization of the Registrar.

Any student who wrongly pays the Texas, rather than the nonresident's, tuition is subject to a penalty of \$10.00 for each violation.

Laboratory Fee

In certain courses a laboratory fee not to exceed the actual cost of materials and supplies and not less than \$2.00 nor more than \$8.00 may be charged. When a laboratory fee is charged the schedule of classes indicates the associated fee.

EXEMPTION FROM TUITION AND FEES

The Statutes of the State of Texas prescribe certain cases in which students can be exempted from tuition and/or certain fees. The various types of exemptions are described below; however, in each case it is the student's responsibility to initiate the action of applying for an exemption through the Registrar's Office and providing satisfactory evidence that all conditions required for the exemption have been met. Until such time as the exemption is granted, a student will be required to pay all tuition and fees from his own funds. Students who might be eligible for an exemption should apply for the exemption at the Registrar's Office at least one month prior to registration of the term in which they plan to utilize the exemption provision.

Exemption of Texas ex-servicemen. A legal resident of Texas is exempted from tuition and certain required fees when he meets *all* the following criteria:

1. He has resided in Texas for a period of not less than twelve (12) months prior to the date of registration.
2. He served in the armed forces or in certain auxiliary services in World War I, World War II, the Korean conflict, or the Cold War. If service was in the Cold War, he must have served on active military duty (other than for training) for more than 180 days.
3. He was a *bona fide* legal resident of the state at the time of entering service.
4. He was honorably discharged from service (those who served in World War II and who were discharged because of being over the age of thirty-eight

or because of a personal request are not eligible for this exemption).

5. He is not eligible for education benefits provided for veterans by the United States Government.

Benefits for children of Texas veterans. Exemption from payment of tuition and certain fees also extends to children of members of the armed forces who were killed in action or died while in the service in World War II or in the Korean conflict or in the Cold War and to orphans of members of the Texas National Guard and the Texas Air National Guard killed since January 1, 1946, while on active duty.

Exemption of children of certain disabled public employees. Children of certain firemen, peace officers, employees of the Texas Department of Corrections, and game wardens who have suffered injury resulting in death or disability sustained in the line of duty are exempt from payment of all tuition and laboratory fees.

Exemption of certain deaf and blind students. Blind or deaf persons who are Texas residents are, under certain conditions, exempt from payment of tuition and certain fees.

Exemption of high-school graduates of state orphanages of Texas. Citizens of Texas who are high-school graduates of the state orphanages of Texas are exempt from tuition and certain required fees.

Low income families. Under certain circumstances a student who is a resident of Texas, is under 25 years of age, who has resided in the state for not less than twelve (12) months prior to registration, who meets certain academic requirements and whose family income was not more than

\$4,800 (family income means the combined gross income of the applicant and his family, if he is single, or the combined gross income of his family, himself, and his spouse, if he is married) may be awarded an exemption from tuition and certain other fees. This exemption is not applicable if the tuition and fees are, or will be, paid by the United States Government or from funds other than those of the student, his family or his guardian.

Children of prisoners of war or persons missing in action. A dependent child under 21 years of age, or a person under 25 years of age who receives the majority of his support from his parent or parents, is exempted from the payment of tuition and certain fees if he is the dependent child of any person who is a domiciliary of Texas on active duty as a member of the armed forces of the United States and who at the time of registration is classified by the Department of Defense as a prisoner of war or as missing in action.

REFUND POLICY

A student who officially withdraws from the University during the first ten days that classes are held in a semester (during the first four days of classes in a summer session) will automatically be refunded 50 percent of the tuition and refundable fees paid.

A student withdrawing after this date will receive no refund except when serious reason precludes a student's completing the action to withdraw during the refund period. In such cases, individual approval from the Registrar is required before a refund is authorized. Students withdrawing from the University are required to attach their student identification cards to the withdrawal form in order to be eligible for a refund.

A student who registers for any term but withdraws from the University before the first day of classes will be refunded 75 percent of the tuition and refundable fees paid.

No refunds will be made to students who reduce their enrollments after registration or who do not officially withdraw from the University.

The above refunds pertain to tuition, student activity fees, and laboratory fees. The policy does not apply to fees not specifically mentioned.

No refunds will be made until 15 days have elapsed from the time fees were paid unless the fees were paid in cash or by money order. Refund checks will be mailed to the student's permanent address when the student has withdrawn from the University. Students entitled to a refund should allow ten working days after the fifteen-day clearing period for receipt of the refund.

The University reserves the right to deduct from the refund any outstanding financial obligations owed the University.

STUDENT FINANCIAL AID

During the time the University is offering programs from its temporary location, only limited financial aid will be available to qualified students. Students with definite need for financial assistance during this time should contact the Student Financial Aid Office.

IV. ACADEMIC REGULATIONS*

Registration

All students who attend classes must be officially registered at The University of Texas at San Antonio. Directions for the registration procedure are included in the schedule of classes for each term. Any questions regarding registration should be directed to the Registrar's Office.

The University does not guarantee the availability of particular courses or sections thereof, since admission to classes will be permitted only until the maximum number of students allowable in any section has been reached. The University reserves the right to cancel any course or section in which the number of registrants does not warrant its continuation.

*Students are held individually responsible for meeting all requirements as indicated in this catalog. Failure to read and comply with policies, regulations and procedures will not exempt a student from whatever penalties he may incur.

*The policies, regulations and procedures stated in this catalog are subject to change without prior notice, if necessary, so that University policies are consistent with the policies of the Board of Regents of The University of Texas System.

Late Registration

Late registration for each semester permits students to register for classes during the first four class days of the semester (during the summer sessions, late registration is the first two days of classes). Students who register late will be charged an additional \$5 the first day of late registration and an additional \$2.50 per day thereafter; this fee is non-refundable. Instructions for late registration are available at the Registrar's Office. Students will not be permitted to register after the close of late registration.

Those students who register late are responsible for completing any work missed in the courses for which they enrolled during the time the course was in session prior to the students' being registered. Late registrants may be required to enroll in a reduced schedule.

Verification of Enrollment

Following the add/drop period of each semester or summer session, a verification report is sent to each student indicating the schedule of classes in which he is officially enrolled. The verification notice is sent to the local address. Any discrepancies between the courses shown on the notice and the courses the student is attending should be resolved by the student in person with the Registrar's Office immediately.

Cancellation of Enrollment

Any student who fails to fulfill admission or matriculation requirements or who otherwise fails to adhere to academic or University regulations is subject to immediate administrative action which may result in his being placed on

probation or having his enrollment for that term cancelled. Re-application for admission, or application for re-admission, to a subsequent term may be considered, provided the deficiency which resulted in the cancellation has been removed.

Auditing

Students who wish to audit a course may do so with the approval of the instructor and Dean of the College in which the course is offered. Such students should enroll in the course on a grade basis and then submit an approved Request to Audit form to the Registrar's Office no later than the add/drop period.

Auditors have only the privilege of listening. Such students may not take examinations or otherwise actively participate in classes.

A student enrolled as an auditor pays the same fees as a student registered for credit. Only those individuals who have been admitted to the University may audit courses. An auditor will have no official record made of his enrollment in classes on an audit basis.

No changes to or from an audit enrollment may be made after the end of the add/drop period.

Adding and Dropping Courses

From the first through the fourth calendar days of a regular semester (the first two calendar days of a summer session) a student may add or

drop courses at the Registrar's Office. The student is responsible for filing the change with the Registrar's Office so that the action will become official. Courses dropped during this period will not appear on the student's permanent record. A grade of "F," however, will be entered on the student's permanent record if he registers for a course and discontinues attendance without filing official notification with the Registrar.

Adding courses is not permitted after the fourth calendar day of a regular semester (after the second calendar day in a summer session).

If a student finds it necessary to drop a course after the fourth calendar day of a regular semester (after the second calendar day in a summer session) it is his responsibility to initiate and complete procedures for obtaining an approved withdrawal from the course. The forms for this purpose are available at the Registrar's Office and require the approval of the instructor. In order for the action to be official, the student must file the approved form with the Registrar's Office. A student who officially drops a course after the fourth calendar day in a regular semester (after the second calendar day in a summer session) will be assigned a grade "W" if he is passing in the course at the time of withdrawal or a grade of "F" if he is failing the course at the time of withdrawal. A student who drops a course without filing the required form with the Registrar's Office will be assigned a grade of "F" in the course. Students may not withdraw from a course later than three weeks prior to the beginning of final examinations for the semester and not later than two weeks prior to the beginning of final examinations for the summer sessions.

Withdrawal from the University

A student who finds it necessary to withdraw from the University (i.e., drop all courses for which he is enrolled) may obtain the forms for this purpose from the Registrar's Office. After completing the required forms, the student must file the necessary material with the Registrar's Office in order to officially withdraw. Students who officially withdraw from college after the fourth calendar day of a regular semester (after the second calendar day of a summer session) will receive a grade of "W" for each class they are passing at that time, and a grade of "F" for each class in which they are not passing at the time of withdrawal. Students who withdraw from all classes are subject to the academic dismissal regulations at the close of the term. (Students withdrawing should refer to the regulations on refunds of tuition and fees.)

Change of Major or Degree

A student who wishes to change his major or degree objective must obtain the required forms at the Registrar's Office. The change is not official until a form has been completed and filed with the Registrar's Office.

Change of Name or Address

Currently enrolled students who have changed their names or addresses should notify the Registrar's Office by completing the appropriate form. Official notification is necessary for proper identification of students' records and for accurate mailing of correspondence, grade reports, transcripts and information pertaining to graduation requirements. The University will not be responsible for mailing correspondence to the

incorrect name or address unless changes are formally filed at the Registrar's Office.

Class Attendance Policy

Regular attendance at all meetings of the courses for which a student is registered is expected. The implementation of this policy is the responsibility of the instructor. If occasions arise when a student has to be absent from a class, it is the student's responsibility to clear absences with each instructor, since it is the instructor's responsibility to set and to communicate to students the attendance requirements of each course.

Whenever a student is absent he must, as soon as possible, make up any work missed. The responsibility for making up class work missed as a consequence of an absence rests entirely with the student.

When, in the judgment of the instructor, a student has been absent to such a degree as to impair his status relative to receiving credit for the course, the instructor may report the absences to the Dean of the College in which the course is offered and recommend that the student be dropped from the course with a grade of "F". If the Dean approves the recommendation, he will advise the Registrar, instructor and student of the action taken.

Students absent from a test are normally graded zero on that test, unless for urgent reason the instructor grants them the privilege of taking a postponed test at a time set by the instructor.

A student who enrolls for a course and then does not attend will be considered absent from the class until he officially drops the course or

until he has accumulated an excessive number of absences and is dropped from the class with a grade of "F".

A student who ceases to attend a class before he officially drops the course will be considered absent from the class and will be subject to the penalties for persistent absences.

Prerequisites

Prerequisites are stated for many courses listed in the course descriptions of this catalog. The purpose of the prerequisite is to advise the student of the background expected of all students in the course. When a student has not met the specific prerequisites listed, he may, under exceptional conditions, obtain permission of his advisor and the instructor of the course to register. In any event, it is the student's responsibility to be sure that he has met all prerequisites before enrolling in any course. Should a student enroll in a course without the stated prerequisites, he may be required to withdraw from the course. Exceptions will not be made to academic regulations for students who register in courses without having met the stated prerequisites.

Grade Reports

The Registrar's Office mails final grades as soon as they are compiled after the close of each semester and the summer session. The grade report reflects the grade assigned by the instructor on his final grade sheet; any subsequent changes are not included. Grades are mailed to the local address on file in the Registrar's Office. Only one grade report is mailed; additional copies are not available.

Applying for Graduation

All degree candidates must officially apply for the degree at the Registrar's Office no later than the end of the add/drop period of the term in which they intend to graduate.

If a student does not graduate at the close of the term for which he has applied, he will automatically be transferred as a prospective graduate for the subsequent term. If the student does not graduate the following semester, or ceases to be enrolled in a subsequent semester, he must again file for the degree.

Course Numbering System

All courses offered by The University of Texas at San Antonio are identified by a three-digit number. The first digit indicates the course level; courses designed for graduate students are numbered 500 through 699. The second digit indicates the semester hours of credit for the courses. When the second digit is 1, 2, 3, 4 or 5, the credit for the course is the corresponding number; when the second digit is 6, 7, 8 or 9, three semester hours of credit will be awarded. When the second digit is 0, the course has variable credit.

Sequenced courses within a discipline and at the same level use the letter "A" to indicate the first half of the course and the letter "B" to indicate the second half of the course. When the sequencing extends beyond two terms, letters are used to indicate the order of the courses, i.e., "A", "B", "C", "D", and "E". The course description for each course indicates the letters used, if any.

If the order in which sequenced courses must be taken is "A" and then "B" (etc.) then no statement is made. If the order is not important, a statement to this effect is made in the course description. A student may be granted credit for each course in a series without completing the entire sequence.

Following the course title, a pair of numbers separated by a hyphen is listed to indicate the course hours per week required; the first number is the number of hours of lecture, the second is the number of hours of laboratory.

Student Classification System

Post-baccalaureate: A student who has at least a baccalaureate degree, but who is not enrolled in a graduate degree program.

Graduate: A student who is enrolled for courses to be applied towards a Master's degree and who has been admitted to the graduate degree program.

Full-time graduate (and post-baccalaureate) students are those enrolled in eight or more semester hours of courses during a regular semester; four or more hours during a summer session.

Part-time graduate (and post-baccalaureate) students are those enrolled in less than eight hours of credit during a regular semester or less than four hours during a summer session.

Note: Upon request, the Registrar will certify students as "full-time" during the term in which they intend to graduate if they are enrolled in the number of hours required to complete the degree, irrespective of the number of hours involved.

Grading System

<u>Symbol</u>	<u>Explanation</u>	<u>Grade Points</u>
A	Outstanding	4
B	Above Average	3
C	Average	2
D	Below Average, but passing	1
F	Failure	0
W	Withdrawal	0
IN	Incomplete	0
NR	No Report	0

Grade Point Average

The Grade Point Average (G.P.A.) is determined by dividing the number of grade points earned by the number of semester hours of credit attempted.

Hours Earned

The hours earned by a student are the number of semester hours of credit earned in which grades of "A", "B", "C" or "D" have been received.

Hours Attempted

The number of hours attempted is the total number of hours for which a student has enrolled and received grades of "A", "B", "C", "D" or "F".

Grades of "Incomplete"

The grade "Incomplete" ("IN"), subject to the regulations of this section, may be assigned a student at the discretion of the instructor. The purpose of the "Incomplete" grade is to allow a student to complete a course without repetition of the regular work of a course. It will not be assigned when a definite grade can be given for the work done. The "Incomplete" grade will be given to indicate that some part of the work of a student in the course has, for good reason, not been completed, while the rest has been satisfactorily completed. The student must have been in attendance at least three-fourths of the term.

Incomplete work must be made up before the completion of the student's next resident enrollment or the student's graduation, whichever is earlier, provided that not more than one year elapses from the time that the "Incomplete" grade is received until the work is completed. If the work is not completed within this time, the "Incomplete" will remain on the student's record and credit may be earned only when the student re-enrolls in the course and completes the entire course satisfactorily.

The time limit does not apply to graduate level courses of an individual study nature, such as research, thesis, or dissertation, except that an "Incomplete" cannot be removed after a degree is awarded. The time limit does apply to all other graduate courses in which class work is ordinarily completed in the process of the regular term. The time limit for removing an "Incomplete" grade in Special Problems 610, 620, or 630 is one year from the date of enrollment in the course, or the time of the student's graduation, whichever is the earlier.

Whenever a grade of "Incomplete" is assigned, the instructor is required to file a "Requirements for Removal of Incomplete" report with the Dean of the College in which the course is offered.

"No Report"

The grade "No Report" ("NR") may be assigned a student only by the Registrar and only in cases in which a grade has not been reported by an instructor. This symbol is assigned when it is not possible to obtain the student's proper grade by the deadline necessary for processing grades at the close of the term and will be replaced with the official grade as soon as possible.

Change of Grades

Grade changes from "Incomplete" ("IN") to a letter grade must be made within the time limit provisions explained under "Grades of Incomplete" in this catalog. A grade of "Incomplete" may be changed by the instructor, within the time limits, by completing a "Removal of Incomplete" form and filing the form with the Registrar's Office.

Any other change of grade must be initiated by the instructor on the required form available in the offices of the College Deans. Such petitions require the approval of the Council of Deans before the Registrar will make the change on the student's record. It is the policy of the Council of Deans to approve grade changes only in the most extraordinary circumstances and where justification of the reason can be substantiated. The Council of Deans will not consider approval of a grade change after six months from the date the original grade was assigned.

Repeating Courses

Only those courses listed in the catalog in which the course description specifically indicates "may be repeated for credit" may be repeated with both units and grade points earned being counted. Neither post-baccalaureate nor graduate students may repeat courses for the purpose of raising a grade.

Academic Dismissal

Continuation in a graduate program is dependent upon: (1) satisfactory progress in absolving any admission conditions that were imposed and (2) maintaining a 3.0 ("B") grade point average for all upper-division and graduate courses taken in a given term. Should a graduate student make less than the 3.0 grade point average in any term or receive a grade of "D" or "F", his continuation is at the discretion of the Dean. A graduate student who, after being admitted to the graduate program, receives a total of three grades of "C" or lower will automatically be dropped from the graduate program. A graduate or post-baccalaureate student enrolled in more than three semester hours of credit and whose grade point average for any term is less than 2.0 ("C") will automatically be dismissed from the University.

Graduate students who are dismissed from a graduate program may petition the Council of Deans for re-admission. In such cases, recommendations from the student's Graduate Advisor and academic Dean will be required.

Transcripts

Official transcripts of all course work taken at The University of Texas at San Antonio are available at the Registrar's Office. Requests for transcripts must be in writing and bear the signature of the student whose record is requested. A fee of \$1.00 will be charged for each copy of the transcript. Transcripts from other institutions submitted to UTSA will become property of the University and will not be reproduced and/or mailed to other institutions. Upon request, work in progress (i.e., a listing of classes in which the student is currently enrolled) will be included with the transcript without additional charge.

Students who have a financial obligation to the University will have transcript service withheld until the obligation is paid in full.

Debts Owed the University

In the event of non-payment of debts owed to the University, any of the following actions may be taken:

1. Denial of re-admission of the student.
2. Denial of further registration.
3. Withholding of official transcripts.
4. Withholding a diploma to which the student would otherwise be entitled.

When a student has any of the above actions against his record it is the student's responsibility to clear his obligations with the University and see that the Registrar's Office is notified before any additional services will be provided.

A student who pays tuition and fees with a check which is not subsequently honored by a bank, and the fault not being that of the bank, and who does not make payment within five days will have his registration for the term cancelled.

Student Responsibility

Each student is responsible for knowing the current regulations of the University. Current regulations are applicable to all students regardless of the date of admission. Interpretations or explanations contrary to the regulations in this catalog are not binding upon the University.

Release of Information

Transcripts or other copies of students' academic records will be released by the Registrar only upon written request from the student, and when payment of the appropriate fee is made. The following exceptions may be made:

1. In the case of an unmarried minor student, upon the written request of the student's parent or legal guardian, and upon receipt of payment of the appropriate fee.
2. In response to a court order.

3. To another institution of higher education or an accreditation agency, upon request.
4. To University faculty and administrative officials, upon request, when the information is for University-related purposes and/or activities.

Directory-type information may be released upon request by any party. Such information may include the student's full name, date of birth, the College in which the student is enrolled and his major field of study, dates of attendance, degrees granted, and honors received. Upon request from a properly identified official of a federal, state or local agency, a student's permanent and local address, telephone number, marital status, name and address of spouse, parent or guardian, general class rank or grade average (not specific grades) as well as the information available for all inquiries, may be released.

Any information about a student contained in a publicly distributed directory may be released without the student's specific consent.

In any event, information about a student may be released to avoid harm to him or to avoid harm to the public good, and for legitimate historical and educational research.

In the event of non-payment of debts owed the University, the University may withhold transcripts and/or refuse to release information about the student. Other actions which may be taken are described under "Debts Owed the University."

V. GENERAL REGULATIONS, MASTER'S DEGREES

Every Master's degree program is based on the assumption that the students participating in it already possess a general college education to the baccalaureate degree level. Accordingly, entering students, as described under "Admission Requirements," are required to hold a baccalaureate degree from an accredited college or university in the United States or proof of equivalent training at a foreign institution. Entering students are required to have a minimum of 18 semester hours in the area in which the graduate degree is sought, at least 12 of these hours are to be of upper-division level, and to submit results from certain standardized examinations. In addition, the writing proficiency and grade point requirements specified as admission requirements to graduate programs must be met. Students without adequate preparation may be admitted on a conditional basis with the understanding that they must undertake course work and other study in order to demonstrate their abilities to perform at the graduate level, and that such work may be in addition to the regular degree requirements.

Entering Examinations

The Dean of the College in which students' major areas fall may appoint a committee to examine students on their undergraduate preparation before applications to enter the program are approved.

Students admitted to graduate programs are expected to demonstrate proficiency in written and spoken English; admission to some areas of graduate study requires a student to pass an examination in English and/or a foreign language. Students lacking the required level of English proficiency will be denied candidacy.

Transfer of Credit

Ordinarily all work for the Master's degree must be done at The University of Texas at San Antonio. However, a maximum of six semester hours of graduate course work may be transferred from another accredited institution upon the approval of the Dean of the College in which the major area is located. All work submitted for transfer credit must have been completed no more than six years before the degree is awarded.

It is the policy of The University of Texas System that all academic institutions within the System may accept graduate credit from each other, and the regular requirements on residency are adjusted accordingly. The applicability of specific courses from other University of Texas System institutions to a student's graduate degree program at UTSA, however, must be approved by the student's advisor and Dean.

Correspondence Courses

Courses completed by correspondence are not accepted for graduate credit and may not be applied to a graduate degree program.

Extension Courses

Work completed in extension classes may be allowed for graduate credit; however, no more than six semester hours of extension credit may be applied to the degree. It is required that the following conditions be met for extension credit to be allowed.

1. The applicant, before taking the course, has been accepted for admission to the graduate program,

2. The course has the prior approval of the student's Graduate Advisor and the Dean, and
3. The extension course is identified as a course designed primarily for graduate students.

Courses Counted for Another Degree

No courses counted toward another degree may be applied to a graduate degree, either directly or by substitution. Work done for the Master's degree may be included in the work for the doctoral degree, when it is offered, provided it is acceptable to the candidate's supervising committee and Dean.

Time Limits and Catalog of Graduation

All credit to be applied to a Master's degree must have been earned within the six years immediately preceding the date the degree is awarded. Outdated credits may be accepted upon approval of the candidate's Graduate Advisor and Dean; in all cases, a comprehensive examination will be required as a condition for validating credit.

General and specific requirements for graduate degrees may be altered in successive catalogs, but the student is bound only by the requirements of the catalog in force at the time of his admission to the graduate program, and within the six year limit. At the student's discretion, the requirements as stated in a subsequent catalog may be elected.

Graduation Dates

Degrees are conferred only at the end of each semester and at the end of each summer session, but formal public ceremonies are held only at the conclusion of the spring semester. Students who wish to participate in

the commencement ceremonies at the close of the spring and who have graduated during the previous summer or fall terms may do so. Information on the procedures to be followed is available in the Registrar's Office.

Final Examination

A candidate for a Master's degree must, in addition to all other requirements, pass a final examination which may be oral or written or both. The examining committee is appointed by the Dean of the College in which the degree is offered. Final examinations will be given only to those students who have been admitted to candidacy for the degree.

Candidacy Requirements

Only those students who show promise of capacity to do work of the high standard set for graduate credit will be admitted as candidates for the Master's degree. A student desiring to become a candidate must make application for candidacy in the Dean's Office prior to the deadline of the semester in which he desires to receive his degree. The Dean, or a committee appointed by the Dean, has the right to examine the student on his preparation in his area and related subjects, and may require him to make up any deficiencies before his application is approved.

This examination may be either oral or written at the discretion of the examiners. The applicant will be recognized as a candidate only when he has satisfied the scholarship requirements and when his application and course of study have been approved by the Graduate Advisor and Dean.

Application for Candidacy

All candidates for the Master's degree must file an Application for Candidacy, signed by the student's Graduate Advisor, with the Dean no later

than the first 30 calendar days of the final semester or first 10 calendar days of the final summer session. The Application for Candidacy should be filed at the end of the first semester of full-time graduate study or upon completion of the first 12 hours of graduate work. Advancement to candidacy is a degree requirement.

Options for Master's Degrees

Two options are available for each Master's Degree Program.

Option I. The candidate for a Master of Arts or Master of Science degree is required to complete 30 semester hours of credit (36 semester hours for the Master of Business Administration degree) approved by the Graduate Advisor and Dean, including six semester hours of credit for a thesis. The thesis is subject to approval by the student's Graduate Advisor, Thesis Committee and Dean. Students receiving advice and assistance from a faculty member in the preparation of thesis are required to enroll in the appropriate thesis course (if necessary, for multiple semesters) until final approval of completed thesis has been given and two copies have been filed with the student's Dean.

Option II. For a Master's Degree Program under *Option II*, a student can meet the requirements for a Master's degree without writing a thesis but instead is required to complete a program of 36 semester hours of course work approved by the student's Graduate Advisor and Dean.

At the beginning of the student's Master's Program he should select the option most suitable to his needs in consultation with his Graduate Advisor. The degree plan approved by the Graduate Advisor and Dean will be

used at the time the student applies for candidacy as the basis for evaluation.

Should a student elect to change options after being admitted to candidacy, he will need to apply for candidacy under the new option and provide a full explanation for the change in the degree plan.

Additional Regulations

With the approval of the student's Graduate Advisor and Dean, a candidate for a Master's degree may apply a maximum of six semester hours of credit for upper-division (junior or senior) courses to a Master's degree; no courses below upper-division level may be applied to the degree.

No courses in which credits of "D" were earned may be applied to a graduate degree. A maximum of two courses in which the grade "C" was earned may be applied to a Master's degree.

A candidate for a Master's degree must have a 3.0 ("B") grade point average in all credit which is part of the degree program.

Requirements for Thesis

The following steps for completing a thesis as part of the Master's degree are the responsibility of each degree candidate selecting Option I:

1. Secure the approval of the Thesis Advisor, who is also Chairman of the Thesis Committee. The Thesis Committee consists of the advisor and two additional members of the Graduate Faculty appointed by the Dean. The student is expected to work closely with his Thesis Advisor in selecting his thesis topic and in completing other details of his study.

2. Submit a preliminary draft for approval by the Thesis Advisor not later than 45 calendar days before final examinations of the term in which the degree is to be awarded. The first draft copy should be corrected, legible, and typewritten. The format of the thesis must follow University regulations. The detailed requirements are available from the academic Dean.
3. Upon concurrence of the Thesis Committee the draft may be approved. This step is intended to signify that the thesis meets the required standards for content, expression, format, spelling and general accuracy. Candidates are responsible for meeting the standards of those reading and approving the thesis.
4. Submit the approved draft to a typist. The approved draft of the thesis is then to be typed in acceptable form.
5. Submit the final copy of the thesis to the Dean's Office not later than 20 calendar days before final examinations of the term in which the degree is to be awarded. This copy of the thesis must be the original copy and will be submitted to the Thesis Advisor and Thesis Committee members for the final endorsement. Final approval is the prerogative of the Dean. If the thesis is found to be acceptable, the thesis will be returned to the candidate at which time it is to be reproduced in order that the two required copies may be filed.

6. File two bound copies of thesis. Degree candidates must file two copies of the thesis with their Dean's Office for binding. One copy must be the original; the second copy a reproduced copy. One copy will be retained by the Dean's Office and one by the Library. Students may submit any number of additional copies for binding at additional cost for their personal use, if they so desire. Copyright, at the author's expense, may be arranged, if desired, in the Dean's Office.
7. The completed, approved thesis must be submitted to the Dean's Office at least ten days prior to the last day of classes of the term in which the degree is to be awarded.

VI. GRADUATE DEGREE PROGRAMS

Academic Year 1973-74

The following graduate degree programs will be available during 1973-1974.*

The detailed requirements for each degree will be found on the following pages.

Master of Business Administration Degree

Business

Master of Arts Degree

Advanced Studies in Education

- Concentrations: 1) Cultural Foundations of Education
 2) Curriculum and Instruction
 3) Early Childhood and Elementary Education
 4) Educational Management
 5) Institutions of Higher Education

Bicultural-Bilingual Studies

- Concentrations: 1) Bicultural Studies
 2) Bilingual Teacher Education

English

- Concentration: 1) English as a Second Language

Environmental Management

- Concentrations: 1) Management of Human Resources
 2) Urban Studies

Spanish

- Concentrations: 1) Hispanic Culture
 2) Hispanic Literatures
 3) Spanish Language

*These degree programs are scheduled beginning with the 1973 Summer Sessions; however, due to resource limitations and demand it may be necessary to implement the various programs on a staggered basis during the academic year or to postpone some programs and support courses until the University is on its permanent campus.

Master of Science Degree

Bicultural-Bilingual Studies

Concentration: 1) Bilingual Medical Interpreting

Environmental Management

Concentration: 1) Management of Physical Resources

Mathematics and Systems Design

The following additional graduate degree programs for academic year 1974-75 will be offered when the University is on its permanent site. These programs are subject to change without notice and will become available only if the University is operational on its campus.

Programs	Degrees
Art	MFA
Bicultural-Bilingual Media Interpreting	MA, MS
Biology	MS
Chemistry	MS
English Language Literatures	MA
Geography	MA
History	MA
Interamerican Management	MBA

COLLEGE OF BUSINESS

The College of Business recognizes the traditional responsibility to prepare its students for careers throughout business and society through a program of excellence. Beyond this, it assumes the responsibility of offering a forward looking curriculum which considers least cost combinations, the problems associated with the factors of production, and delineates potential methods to determine viable solutions relevant to the business world of today and tomorrow.

The primary focus of the College of Business will be on providing quality instruction. The instruction of students in a program of excellence assumes that the theoretical backgrounds of students and faculty alike will be supplemented by research and other allied activities in the world of business.

MASTER OF BUSINESS ADMINISTRATION DEGREE

The Master of Business Administration degree is designed to provide intensive training to qualified graduate students and is available to individuals with undergraduate degrees in the business administration areas as well as to those with specializations outside the business field.

Students whose previous training has been in non-business fields may be admitted to the MBA program but will be required to complete a series of foundation courses as a condition of admission. The foundation courses are in addition to the degree requirements.

Special Admission Requirements. Applicants for admission to the MBA program will be required to meet the University-wide admission requirements, except that the minimum of 18 semester hours in business is waived because of the dual program. In addition, all applicants must take the Admission Test for Graduate Study in Business* (ATGSB) and submit results to the Director of Admissions well in advance of the desired date of admission. The score on the ATGSB will be considered in determining the applicant's eligibility for admission to the program.

Some or all of the following foundation courses may be required as conditions for students with a non-business background, or for other applicants whose previous training is insufficient to permit full admission to the program:

ACCT 530. THE THEORY, METHOD AND USE OF ACCOUNTING.

ACCT 531. COSTS AND BUDGETS.

ACCT 535. MANAGEMENT INFORMATION SYSTEMS.

*Applications for the ATGSB, or information on the test, may be obtained from Educational Testing Service, Princeton, New Jersey 08540.

- ECON 530. THEORIES OF ECONOMICS SURVEY.
- FIN 531. BUSINESS FINANCE.
- MGMT 530. FOUNDATIONS OF MANAGEMENT.
- MGMT 533. LEGAL ENVIRONMENT FOR BUSINESS.
- MGMT 537. FOUNDATIONS OF QUANTITATIVE METHODS FOR BUSINESS.
- MRKT 530. FOUNDATIONS OF MARKETING.

Degree Requirements. All candidates for the MBA degree will, in addition to the General Regulations for Master's Degrees, be required to successfully complete the following core of 21 semester hours.

- ACCT 561. ACCOUNTING ANALYSIS FOR DECISION-MAKING.
- ECON 561. BUSINESS ECONOMICS.
- FIN 561. FINANCIAL MANAGEMENT.
- MGMT 561. QUANTITATIVE METHODS IN BUSINESS.
- MGMT 565. BUSINESS RESEARCH METHODS.
- MGMT 671. MANAGEMENT POLICY, PROBLEMS AND TRENDS.
- MRKT 561. MARKETING MANAGEMENT.

Students selecting Option I (a total of 36 semester hours including a thesis is required) will, in addition, be required to successfully complete 9 semester hours of credit in elective courses approved by the Graduate Advisor and Dean and 6 semester hours of credit in thesis, Business 691. Students selecting Option II (36 semester hours without a thesis are required) will be required to successfully complete 15 semester hours of credit in electives approved by the Graduate Advisor and Dean.

COURSE DESCRIPTIONS

ACCOUNTING

(ACCT)

- 530 THE THEORY, METHOD AND USE OF ACCOUNTING.
(3-0) 3 hours credit.
An introductory course for MBA candidates without previous work in accounting. Emphasis is on accounting as a tool to communicate financial information, for planning, for analyzing and controlling business enterprises. Methods and procedures are covered.
- 531 COSTS AND BUDGETS.
(3-0) 3 hours credit.
Theory and techniques of cost accounting for product costing, control, and decision-making. Consideration of prime costs, overhead, budgeting, and transfer pricing.
- 535 MANAGEMENT INFORMATION SYSTEMS.
(3-0) 3 hours credit.
A course in programming and computer systems for graduate students who have not had undergraduate training in this area.
- 561 ACCOUNTING ANALYSIS FOR DECISION-MAKING.
(3-0) 3 hours credit. Prerequisite: ACCT 530 or the equivalent.
The study of accounting and its uses by management in the decision-making process.
- 562 MANAGERIAL ACCOUNTING.
(3-0) 3 hours credit. Prerequisite: ACCT 561 or the equivalent.
A detailed analysis of financial statements and corporate accounts. Accumulation of cost information and interpreting of the results as an aid to managerial decisions.

610, 620, 630 SPECIAL PROBLEMS.

1 to 3 hours credit.

May be repeated, but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

635 CURRENT ACCOUNTING THEORY.

(3-0) 3 hours credit. Prerequisites: ACCT 562 and consent of instructor.

Current accounting literature; accounting bulletins of the American Institute of Certified Public Accountants, Securities Exchange Commission accounting releases and other relevant material.

COURSE DESCRIPTIONS

BUSINESS

(BUS)

- 691 MASTER'S THESIS.
(3-0) 3 hours credit.
May be repeated for credit, but not more than 6 hours
will apply to the Master's degree. Permission of the
instructor is required. Enrollment in 691 is required
each term the thesis is in progress.

COURSE DESCRIPTIONS

ECONOMICS

(ECON)

- 530 THEORIES OF ECONOMICS SURVEY.
(3-0) 3 hours credit.
An intensive one semester course in theories of economics for students entering the MBA program who have not had an adequate undergraduate foundation in economics. Micro as well as macro economic concepts are studied. Specific areas covered are: the price system as it functions under competition, monopoly and partial monopoly; collective bargaining, international trade; national income, measurement and determination; business cycles; money and banking, monetary policy; fiscal policy and economic development.
- 561 BUSINESS ECONOMICS.
(3-0) 3 hours credit. Prerequisite: ECON 530 or the equivalent.
The application of price theory to problems of the firm. Actual case studies will be utilized.
- 571 ECONOMICS OF HUMAN RESOURCES.
(3-0) 3 hours credit. Prerequisite: ECON 530 or the equivalent.
An economic study of the education process, rates of return and investment in human resources such as health and on-the-job training. Educational planning, production and economic growth are analyzed.
- 575 URBAN ECONOMICS.
(3-0) 3 hours credit.
A study of the economic dimensions of cities. Specific areas covered are location theory, alternative uses of existing natural resources, the labor force, transportation, poverty, and other factors related to the economic development of urban areas.
- 581 INTERNATIONAL BUSINESS ECONOMICS.
(3-0) 3 hours credit. Prerequisite: ECON 530 or the equivalent.
The use of economic concepts in the solution of international business problems. Actual cases will be utilized to allow the student an opportunity to apply the tools of economic theory.

- 591 SOCIAL CONTROL OF BUSINESS.
(3-0) 3 hours credit. Prerequisite: ECON 530 or the equivalent.
An extensive study of current regulatory problems being faced by business firms. Extensive reading assignments on current developments and case studies will be utilized.
- 610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated, but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course.
Requires permission of the instructor.
- 632 MANPOWER POLICY.
(3-0) 3 hours credit.
Projecting of labor needs and the evolution of economic society and the development of labor force skills to supply these needs. Alternative choices of resources and public programs available at the local, state, and national levels to assist in the efficient utilization of human resources.
- 634 ECONOMICS OF POVERTY.
(3-0) 3 hours credit.
A study of the causes of poverty and of the ways society provides the means of livelihood for those who are unable to care for themselves, due to unemployment, age, illness, or other disabilities.
- 636 LABOR ORGANIZATIONS.
(3-0) 3 hours credit.
A study of the origins of organized labor movements and their evolution over time. Management problems facing organized labor as they relate to society such as collective bargaining, economic security, leisure and technological change are examined.

COURSE DESCRIPTIONS

FINANCE

(FIN)

- 531 BUSINESS FINANCE.
(3-0) 3 hours credit.
A study of the financial dimensions of a business enterprise. Areas covered are business financial organizational structures; financing of business enterprises; capitalization; refunding and reorganization.
- 561 FINANCIAL MANAGEMENT.
(3-0) 3 hours credit. Prerequisite: FIN 531 or the equivalent.
A study of the methodology used by the financial manager in the financing of various operations of a business enterprise, such as planning, requisition and management of funds.
- 571 FINANCIAL INSTITUTIONS.
(3-0) 3 hours credit.
The "money market" and the development, organization, and operation of the supporting financial institutions.
- 581 CAPITAL FORMATION AND BUDGETING.
(3-0) 3 hours credit.
Analysis of the cost-of-capital concepts and capital budgeting as these are associated with the micro and macro approach to finance.
- 591 INVESTMENT PROBLEMS.
(3-0) 3 hours credit.
Measuring and evaluating risk possibilities as they relate to public and private debt, government regulation of securities markets and taxation.

610, 620, 630 SPECIAL PROBLEMS.

1 to 3 hours credit.

May be repeated, but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

663 FINANCING URBAN DEVELOPMENT.

(3-0) 3 hours credit.

A study of the various sources of revenues available to finance the development of cities. An evaluation of the favorable and unfavorable dimensions of these various funding sources. Cost benefit analysis is used to evaluate the alternatives as they affect city development.

COURSE DESCRIPTIONS

MANAGEMENT

(MGMT)

- 530 FOUNDATIONS OF MANAGEMENT.
(3-0) 3 hours credit.
Areas of management theory studied are: organizational structure, planning, staffing, controlling and external relationships of business enterprises.
- 533 LEGAL ENVIRONMENT FOR BUSINESS.
(3-0) 3 hours credit.
An intensive course for students entering the graduate program without a basic undergraduate course in business law. Areas covered are the law of contracts; negotiable instruments, sales, insurance, bankruptcy, agencies, partnerships and corporations.
- 537 FOUNDATIONS OF QUANTITATIVE METHODS FOR BUSINESS.
(3-0) 3 hours credit.
A course covering business and economic statistics for students who have not had undergraduate training in this area. Quantitative tools used in the management decision process are studied.
- 561 QUANTITATIVE METHODS IN BUSINESS.
(3-0) 3 hours credit. Prerequisite: MGMT 537 or the equivalent.
The application of mathematical statistical techniques to the solution of business and economic problems. The course is intended to provide the quantitative methods foundations needed for students in the MBA program in order to permit a better understanding of operations analysis, management as a science and research in the social sciences.
- 565 BUSINESS RESEARCH METHODS.
(3-0) 3 hours credit. Prerequisite: Graduate standing.
Theory of methods used in conducting research in business, evaluation of major sources of business information, analysis of organization in writing research reports and problems in the major forms of business research.

- 571 MANAGEMENT STRATEGY AND TACTICS.
(3-0) 3 hours credit. Prerequisite: MGMT 530 or the equivalent.
An intensive course covering current literature relating to management theory and enterprise leadership.
- 610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated but no more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course.
Requires permission of the instructor.
- 671 MANAGEMENT POLICY, PROBLEMS, AND TRENDS.
(3-0) 3 hours credit. Prerequisite: Permission of the Graduate Advisor.
A case study course intended to provide a capstone coverage of material taken in the MBA program, as well as broadening the horizons of the student beyond the focus on the firm. The macro-economic aspects of our economy and contemporary problems and trends of business are covered.

COURSE DESCRIPTIONS

MARKETING

(MRKT)

- 530 FOUNDATIONS OF MARKETING.
(3-0) 3 hours credit.
Marketing is studied as a function of business with intensive study in price determination, distribution of goods, promotion and organizational policies.
- 561 MARKETING MANAGEMENT.
(3-0) 3 hours credit. Prerequisite: MGMT 530 or the equivalent.
A study of current problems in the area of marketing management. Marketing practices and thought are analyzed along with an intensive evaluation of the current literature.
- 571 MARKETING ADMINISTRATION METHODOLOGY.
(3-0) 3 hours credit. Prerequisite: MRKT 561.
Problems in obtaining and analyzing internal and external marketing information using various instruments, design and techniques germane to marketing.
- 581 PROBLEMS IN MARKETING MANAGEMENT.
(3-0) 3 hours credit. Prerequisite: MRKT 561.
Case problems in marketing. Designed to give the student an opportunity to utilize the material and analytical tools that have been acquired.
- 610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated, but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

COLLEGE OF FINE AND APPLIED ARTS

The College of Fine and Applied Arts will provide the best possible professional education in the visual arts and music at undergraduate and graduate levels. The major fields of study will prepare students for careers in art, design, crafts, and music education. Conceptual and visual awareness as well as technical ability are at the core of the programs of study which will stress, ultimately, creative and intellectual development.

Pending completion of permanent facilities, courses in the College of Fine and Applied Arts will be limited to graduate courses in the history of art.

COURSE DESCRIPTIONS

ART

(ART)

- 561 ART AND ARCHITECTURE OF MEXICO AND MEXICAN AMERICA.
(3-0) 3 hours credit.
A study of the missions, the Santos, and the works of twentieth century Mexican muralists and Mexican American artists. Cultural and artistic rather than present political boundaries are used as a basis for spatial definition of this study. The art of the American Southwest is treated as an integral part of New Spanish and Mexican art.
- 562 PRE-COLUMBIAN ART AND ARCHITECTURE OF MESOAMERICA.
(3-0) 3 hours credit.
An art historical study of the architecture, sculpture, and painting of the Olmec, Izapan, Classic Maya, Zapotec, Classic Veracruz, Teotihuacán, Toltec-Maya, Mixtec, and Aztec peoples of Ancient Mexico and Guatemala. A course stressing a definition of styles, their durations, and extensions. Linguistic, geographic, and ethnic designations for these styles are retained for classificatory purposes only.
- 565 THE CATHEDRAL IN SPAIN AND SPANISH AMERICA.
(3-0) 3 hours credit.
A study of the major Spanish and Spanish American cathedrals, principally those of Santiago de Compostela, Burgos, Toledo, Córdoba, Sevilla, Cádiz, Granada, León (Spain), Mexico City, Puebla, Oaxaca, Mérida, Morelia, Zacatecas (New Spain), Antigua (Guatemala), Caracas, Bogotá, Quito (New Granada), Cajamarca, Lima, Cuzco (Peru), and La Paz (Upper Peru).
- 571 TWENTIETH CENTURY ART OF LATIN AMERICA.
(3-0) 3 hours credit.
A comparative study of twentieth century painting in Venezuela, Colombia, Peru, Chile, Argentina, and Mexico.

5/5 COLONIAL ART OF MEXICO, GUATEMALA, AND PERU.

(3-0) 3 hours credit.

A study of the art and architecture of New Spain, Guatemala, New Granada, Peru, and Upper Peru. A course stressing architectural spaces and volumes as well as painting and sculpture of the retablos, yeserías (gilded and polychromed stucco decorations), and retablo facades.

COURSE DESCRIPTIONS

FINE ARTS

(FA)

- 561 MAN'S CREATIVITY.
(3-0) 3 hours credit.
An examination of the biographies and works of highly creative people in the Fine Arts whose lives and works have helped man better appreciate individuality, beauty in his environment, and have significantly contributed to the advancement of society.
- 571 THE HISPANIC FINE ARTS.
(3-0) 3 hours credit.
An examination of the development of music, art, and drama in Hispanic Cultures with special emphasis on Iberia and the confluence of the Fine Arts in Spanish America.
- 575 SEMINAR IN FINE ARTS IN COLONIAL SPANISH AMERICA.
(3-0) 3 hours credit.
A study of architecture, painting, sculpture, music, and drama encompassing the confluence of pre-Columbian cultures and the Spanish manifestations in Spanish America during the Colonial period.

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

Programs in the College of Humanities and Social Sciences aim at developing an appreciation of the multidisciplinary nature of knowledge and the abilities and willingness to use skills, methods, information, and theories developed by disciplines outside one's own field. The College will provide much of what is fundamental to a well-rounded, liberal education as well as its own degree specializations.

Undergraduate offerings are designed to develop general abilities in analytical thinking, and furnish the attitudes and information necessary to put these abilities into action. A simultaneous goal is to spark and develop broad interests in the student which will make him a self-generating person. Graduate offerings will particularly emphasize the multidisciplinary cultural approach with intensive, specialized career preparation--at the same time providing tailor-made degree plans commensurate with individual goals and objectives.

MASTER OF ARTS DEGREE IN ENGLISH

Concentration in English as a Second Language

The Master of Arts Degree in English with a concentration in English as a Second Language is designed to train teachers in the elementary and secondary schools, social workers, and others to deal effectively with the problems of teaching English to persons whose primary language is other than English. During 1973-74 this program will concentrate on English as a second language for individuals whose primary language is Spanish. The program will be expanded to include other foreign language groups as the need arises and the resources become available.

Special Admission Requirements. In addition to the University-wide admission requirements, students entering this program must demonstrate proficiency in both the Spanish and English languages by satisfactorily passing an examination in these languages. It is required that applicants for this program have the equivalent of an undergraduate minor in Spanish and the equivalent of an undergraduate minor in English.

Degree Requirements. All candidates for the Master of Arts Degree in English with a concentration in English as a Second Language will, in addition to the General Regulations for the Master's Degree, be required to successfully complete either Option I or Option II as indicated below.

Option I (a total of 30 semester hours including a thesis is required):

ANTH 560. LANGUAGE, CULTURE, AND CULTURE CHANGE.

ENSL 531. LINGUISTIC APPROACH TO ENGLISH AS A SECOND LANGUAGE.

ENSL 532. COMPARATIVE LINGUISTIC STRUCTURES OF SPANISH AND ENGLISH.

ENSL 561. TEACHING ENGLISH AS A SECOND LANGUAGE.

ENSL 562. READING TECHNIQUES IN ENGLISH AS A SECOND LANGUAGE.

ENSL 691 (6 hours). MASTER'S THESIS.

FL 531. BASIC RESEARCH DESIGN IN FOREIGN LANGUAGES.

Six (6) semester hours of supportive course work, as approved by the Graduate Advisor and Dean (ENGL 633, FL 561, BCBL 532 are suggested).

Option II (a total of 36 semester hours of approved course work is required):

ANTH 560. LANGUAGE, CULTURE, AND CULTURE CHANGE.

ENSL 531. LINGUISTIC APPROACH TO ENGLISH AS A SECOND LANGUAGE.

ENSL 532. COMPARATIVE LINGUISTIC STRUCTURES OF SPANISH AND ENGLISH.

ENSL 561. TEACHING ENGLISH AS A SECOND LANGUAGE.

ENSL 562. READING TECHNIQUES IN ENGLISH AS A SECOND LANGUAGE.

ENSL 681. INTERNSHIP.

FL 531. BASIC RESEARCH DESIGN IN FOREIGN LANGUAGES.

Nine (9) semester hours of supportive course work, as approved by the Graduate Advisor and Dean (ENGL 633, FL 561, BCBL 532 are suggested).

Six (6) semester hours of course work in a related area (Spanish, English, Bicultural-Bilingual Studies are suggested areas), as approved by the Graduate Advisor and Dean.

MASTER OF ARTS DEGREE IN SPANISH

The Master of Arts in Spanish focuses on the various aspects of intellectual and creative development in Spain, Spanish America and the U. S. Southwest as reflected in language, literature and cultural patterns. Through training in the principles of the disciplines and supportive areas and in bibliographical methods, and comparative literary or cultural analysis, students become specialists capable of producing integrated and authoritative studies in the various fields. They are prepared for careers in scholarship; in teaching at the elementary, high school, or college levels; or in various branches of government, business, law, and social service. Three concentrations are available in the program to fit the varying needs and interests of prospective students. These are in Hispanic literatures, Hispanic Culture, and Spanish Language.

Special Admission Requirements. In addition to the University-wide admission requirements, applicants are expected to have a bachelor's degree with a major in Spanish or the equivalent and an adequate command of both written and oral Spanish. Also recommended is a minimum of four semesters of work in a second foreign language and broad acquaintance with Hispanic Culture.

Degree Requirements. All candidates for the degree will, in addition to satisfying the General Regulations for the Master's Degree, be required to successfully complete:

- a. the core courses,
- b. the required courses for a concentration,
- c. the remaining requirements for either Option I or Option II.

Core Courses:

- BCBL 531 FOUNDATIONS OF HISPANIC CULTURES.
 SPAN 531 CULTURAL AND STRUCTURAL DIMENSIONS OF THE
 SPANISH LANGUAGE.
 SPAN 552 THE HISPANIC LITERARY HERITAGES.

Concentrations:Hispanic Culture

- FA 571 THE HISPANIC FINE ARTS.
 SPAN 573 THE HISTORY OF IDEAS IN SPAIN AND LATIN
 AMERICA.
 SPAN 576 SEMINAR IN SPANISH CULTURE AND CIVILIZATION.

Hispanic Literatures

- SPAN 560 MASTERPIECES OF HISPANIC LITERATURES.
 SPAN 561 CONTEMPORARY HISPANIC LITERATURE.
 SPAN 565 SEMINAR IN HISPANIC LITERATURES.

Spanish Language

- SPAN 584 HISTORY OF THE SPANISH LANGUAGE.
 SPAN 585 STYLISTICS AND SYNTAX.
 SPAN 586 SEMINAR IN SPANISH LINGUISTICS.

Option I:

Six (6) semester hours of course work in a second field, as approved by the Graduate Advisor and Dean, and completion of an acceptable thesis (Spanish 691, six hours).

Option II:

Nine (9) semester hours of course work in a second field, as approved by the Graduate Advisor and Dean.

Nine (9) semester hours of course work in the concentration, a second field, or from a related area, as approved by the Graduate Advisor and Dean.

COURSE DESCRIPTIONS

ANTHROPOLOGY

(ANTH)

- 531 THE ARCHAEOLOGY OF MESOAMERICA.
(3-0) 3 hours credit.
A survey of the major features of the native cultures of Mexico and Guatemala. Emphasis will be put on cultural evolution, the growth and decline of civilizations, relationships with natural settings, interaction among the cultures, and continuities into the historical present.
- 532 ARCHAEOLOGICAL BACKGROUNDS OF THE MIDDLE EAST, THE MEDITERRANEAN, AND EUROPE.
(3-0) 3 hours credit.
Examination of the major events of prehistory in the area, the establishment of agricultural life, the development of urbanism, and the interaction of the various zones of the area in the evolution of civilization.
- 533 REGIONAL NATIVE CULTURES OF NORTH AMERICA.
(3-0) 3 hours credit.
A survey of native cultures ranging from the Arctic to the Woodlands of Eastern North America, and the Greater Southwest. The rise of regional variation, the role of native religious movements, the influence of natural environment, and continuities into the historical present will all be considered.
- 535 THE ARCHAEOLOGY OF SOUTH AMERICA.
(3-0) 3 hours credit.
A consideration of the major features of native cultures of South America, Central America and the Caribbean. Emphasis on the variety of cultural forms and cultural evolution. The roles of demography, subsistence systems, militarism, religion, and other factors will be discussed in the rise of South American cultures.

- 536 ETHNOLOGY OF MESOAMERICA.
 (3-0) 3 hours credit.
 Examination of the cultural diversity of the native and ladino cultural traditions of Mexico and Guatemala. The period covered will be the colonial through the recent period although emphasis will be on the latter. Community studies of traditional communities, social structural and economic systems studies, urban anthropology, and other sources will be utilized.
- 560 LANGUAGE, CULTURE, AND CULTURE CHANGE.
 (3-0) 3 hours credit.
 Analysis of the nature and function of language and non-verbal communication. Problems of cross-cultural communication and acculturation in relation to cultural conflict with particular emphasis on the Mexican-American. Includes cultural dynamics and directed change.
- 565 CULTURAL ECOLOGY.
 (3-0) 3 hours credit.
 A systems approach to the inter-relationships between man, culture, and the natural world.
- 580 MEDICAL ANTHROPOLOGY.
 (3-0) 3 hours credit.
 Consideration of cultural factors in the practice of medicine, training of physicians, attitudes toward drugs and medical personnel. Psychological elements and value systems in traditional societies and their non-medical explanations and attitudes toward disease, trauma, curing, and preventive medicine.
- 581 SEMINAR IN MEXICAN-AMERICAN CULTURE.
 (3-0) 3 hours credit.
 A survey of Mexican-American culture. Special studies in ethnology, ethnography, folklore, and linguistics.
- 631 SEMINAR IN ANTHROPOLOGY OF MESOAMERICA.
 (3-0) 3 hours credit. Prerequisite: ANTH 531.
 Topical focus will vary, but concentration will be on problems of anthropological interest in ethnology, archaeology or ethno-history. May be repeated for credit.

COURSE DESCRIPTIONS

ENGLISH

(ENGL)

- 530 STUDIES IN RENAISSANCE DRAMA.
(3-0) 3 hours credit.
Reading and analysis of plays by Marlowe, Shakespeare, Ben Johnson, Kyd, Beaumont, Fletcher, and others.
- 531 STUDIES IN VICTORIAN POETRY.
(3-0) 3 hours credit.
A consideration and analysis of poetry by the Brownings, Tennyson, Swinburne, Morris, Rossetti, and others.
- 532 STUDIES IN 19TH CENTURY AMERICAN FICTION.
(3-0) 3 hours credit.
Critical analysis of works by Melville, Hawthorne, Howell, James, Twaine, Poe, and others.
- 533 STUDIES IN THE FICTION OF THE GREATER SOUTHWEST.
(3-0) 3 hours credit.
Consideration of the works of Dobie, LaFarge, "The Santa Fe School," Steinbeck, Bret Harte, and others.
- 535 MODERN AMERICAN SHORT STORY.
(3-0) 3 hours credit.
An in depth study of the short story from the point of view of structure, theme, and style. Such writers as Hemingway, Welty, Porter, Faulkner, Singer, Updike and others will be considered.
- 610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

- 033 SEMINAR: ENGLISH LINGUISTICS.
(3-0) 3 hours credit.
May be repeated for credit when topics vary. Topics:
sociolinguistics, phonological analysis, grammatical
analysis, grammar of written English.

COURSE DESCRIPTIONS

ENGLISH AS A SECOND LANGUAGE

(ENSL)

- 531 LINGUISTIC APPROACH TO ENGLISH AS A SECOND LANGUAGE.
(3-0) 3 hours credit.
Phonemic and morphemic analysis. Theoretical background to the techniques, and their application as tools to the problems of bilingualism. Consideration of such matters as transformational grammar will be included. Practicum work is required.
- 532 COMPARATIVE LINGUISTIC STRUCTURES OF SPANISH AND ENGLISH.
(3-0) 3 hours credit. Prerequisite: ENSL 531.
Detailed analysis and comparison of linguistic structures of the two languages with an emphasis on problem areas of bilinguals. Means of dealing with these problems will be emphasized.
- 561 TEACHING ENGLISH AS A SECOND LANGUAGE.
(3-0) 3 hours credit.
Survey of the basic philosophies and approaches in methodologies in teaching the oral aspects of English as a second language. Includes practice in techniques for developing oral language and incidental learning.
- 562 READING TECHNIQUES IN ENGLISH AS A SECOND LANGUAGE.
(3-0) 3 hours credit.
The teaching of reading English as a second language with emphasis on the development of audio-lingual mastery as a basis of reading development--all within a cross-cultural context. Exploration of testing techniques and the use of audio-lingual materials applicable to the development of cognition skills.

610, 620, 630 SPECIAL PROBLEMS.

1 to 3 hours credit.

May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

681 INTERNSHIP

(0-9) 3 hours credit. Prerequisite: Approval of the Dean.

An opportunity will be provided the student to work in an environment setting which will permit him to apply the knowledge learned in the formal institution part of the program.

691 MASTER'S THESIS.

(3-0) 3 hours credit.

May be repeated for credit but no more than 6 hours will apply to the Master's degree. Permission of the instructor is required. Enrollment in ENSL 691 is required each term the thesis is in progress.

COURSE DESCRIPTIONS

FOREIGN LANGUAGES

(FL)

- 531 BASIC RESEARCH DESIGN IN FOREIGN LANGUAGES.
(3-0) 3 credit hours. Prerequisite: A basic statistics course.
Consideration of basic concepts of research design, strategies and sources. An examination of tests and measurements, multivariate statistics, and computer assisted instruction. Includes field experience and data analysis.
- 561 FOREIGN LANGUAGE MEDIA INSTRUCTION.
(3-0) 3 hours credit.
Consideration of all media in implementation of foreign language instruction and curriculum, survey of the basic philosophies and approaches in methodology in the teaching of foreign language.

COURSE DESCRIPTIONS

GEOGRAPHY

(GEOG)

- 535 THE REGIONAL GEOGRAPHY OF THE GREATER SOUTHWEST.
(3-0) 3 hours credit.
The physical and cultural characteristics of the American Southwest, including Texas, and the adjacent parts of Mexico. Both Pre-Hispanic and European periods will be considered.
- 561 CULTURAL AND PHYSICAL GEOGRAPHY OF NORTH AMERICA.
(3-0) 3 hours credit.
Physical and cultural characteristics of the human use of the North American continent both in aboriginal times and after European contact. Ecological zoning, settlement patterning, demographic developments, cultural influence and modification of the landscape will be among the topics covered.
- 563 CULTURAL AND PHYSICAL GEOGRAPHY OF MIDDLE AMERICA.
(3-0) 3 hours credit.
Physical and cultural characteristics of human occupation of the area between the Greater Southwest and South America. Ecological and cultural diversity, economic interdependence, demographic history, aboriginal and European land use will be included in the course.
- 565 CULTURAL AND PHYSICAL GEOGRAPHY OF SOUTH AMERICA.
(3-0) 3 hours credit.
Characteristics of aboriginal and post-European land use and interaction among the varying ecological settings of South America. Contrasts between the settlement patterns and land use of the tropical forest zones, the Andes, and the llanos of the Southwest.

- 567 CULTURAL AND PHYSICAL GEOGRAPHY OF THE MEDITERRANEAN AND EUROPE.
(3-0) 3 hours credit.
Consideration of the prehistoric and historic periods in ecological interaction with human populations. Such matters as central place theory, etc., will be used to explain settlement patterns and economic developments. Topics such as the Roman subsistence dependence on North Africa will be included.
- 581 ECONOMIC GEOGRAPHY.
(3-0) 3 hours credit.
Substantive and theoretical consideration of the economic implications of geography. Topics include the development of industrial patterns, subsistence patterns, transportation systems, and resource exploitation. Central place theory, Boserup's theory of agricultural growth, and other theoretical matters will be considered.
- 651 SEMINAR IN THE GEOGRAPHY OF LATIN AMERICA.
(3-0) 3 hours credit.
May be repeated for credit when topics vary.

COURSE DESCRIPTIONS

HISTORY

(HIST)

- 530 SEMINAR IN AMERICAN STATE AND LOCAL HISTORY.
(3-0) 3 hours credit.
The nature of history and its writing; the relationship of local and immediate events to national and regional affairs; the possibilities for classroom use of local history in stimulating student interest in broader historical matters; use of local source materials such as county, community, and private documents.
- 531 SEMINAR IN TEXAS HISTORY.
(3-0) 3 hours credit.
Intensive examination of the major issues of Texas History.
- 532 READINGS SEMINAR IN AMERICAN HISTORY FOR TEACHERS.
(3-0) 3 hours credit.
Individually tailored programs of readings for high school history teachers, coordinated in a seminar.
- 533 COLLOQUIUM ON MAJOR ISSUES IN AMERICAN HISTORY.
(3-0) 3 hours credit.
A series of related presentations by staff and outside scholars on current controversies, major interests, trends, and new research in American History. Students will be expected to prepare for each colloquium by appropriate reading.

- 560 HISTORY OF SOUTH AMERICA: THE COLONIAL PERIOD.
(3-0) 3 hours credit.
Includes consideration of the Caribbean; covers 1492 to 1810. Portuguese colonization of Brazil; the conquest of Peru and the civil wars; the conflict between crown and colonists over native populations; Jesuit settlements in Paraguay; social, political and cultural developments within the colonies; the economic basis of The Wars of Independence.
- 561 HISTORY OF SOUTH AMERICA: THE EARLY REPUBLICAN AND MODERN PERIODS.
(3-0) 3 hours credit.
The Wars of Independence; conservative/liberal conflicts and civil wars in the early republican period; the War of the Pacific; social, economic and political developments; Brazil as a separate tradition. Relations between South American republics and the United States; the Panama Canal incident; European immigration; industrialization and social change; World War II; demographic changes and foreign immigration; Communism and revolutionary movements; Castro and Cuba.
- 570 EUROPEAN HISTORY: THE AGE OF EXPLORATION.
(3-0) 3 hours credit.
Focuses on 15th and 16th century European contacts and discovery of the other parts of the world. Political, economic, and cultural impacts.
- 571 EUROPEAN HISTORY: A SURVEY OF ENGLISH HISTORY.
(3-0) 3 hours credit.
Consideration of the major features on English cultural, political, economic, and military history. Detailed examination of selected eras and events, such as the Elizabethan period, the Industrial Revolution, the establishment of the Indian Empire, and the Puritan Revolution.
- 573 EUROPEAN HISTORY: THE MODERN ERA, 1815-1945.
(3-0) 3 hours credit.
Restructuring of European politics after Waterloo; nationalist movements, Italy and Greece; the Pan-Slavic movement; the Franco-Prussian War; Socialist movements and Marxism; rise of Germany; colonial and imperial rivalries; World War I; the Russian Revolution; between the world wars; dictatorships and totalitarian movements; World War II.

- 580 HISTORY OF MEXICO AND GUATEMALA: THE COLONIAL PERIOD.
(3-0) 3 hours credit.
Survey and detailed examination of the major events, trends and developments during the period of Spanish domination from 1521 to 1810. Consideration will be made of the legacy of native culture and social systems from the pre-Hispanic past. Demographic, social and economic disruptions and readjustments in the early colonial period; the viceregalty.
- 581 HISTORY OF MEXICO AND GUATEMALA: THE EARLY REPUBLICAN PERIOD.
(3-0) 3 hours credit.
The background of the War of Independence; the wars themselves; economic and social changes and developments in republican times; European interventions; the War with the United States; conservative and liberal conflicts; the Porfiriato. The Central American Federation. European immigration to Guatemala in the 19th century.
- 582 HISTORY OF MEXICO AND GUATEMALA: THE MODERN PERIOD.
(3-0) 3 hours credit.
The revolution of 1910 in Mexico; Madero, Obregon, Zapata, Villa; intervention; Calles and the anti-clerical movement; stabilization; Cardenas and the Petroleum Crisis. Guatemala and the dictatorship of Ubico; World War II and changes in Mexico and Guatemala. Post-war developments. Indigenismo.
- 587 SEMINAR IN THE HISTORY OF MEXICO.
(3-0) 3 hours credit.
May be repeated for credit when topics vary.
- 590 THE GREATER SOUTHWEST.
(3-0) 3 hours credit.
A study of the regional events of the area and their relationships to larger matters in Mexico and the United States during the nineteenth and twentieth centuries. Historical perspectives of U.S. and Mexico relations in which political, intellectual, and economic developments are interwoven with sociological and demographic questions.
- 591 AMERICAN HISTORY: SEMINAR IN SOUTHWEST HISTORY.
(3-0) 3 hours credit.
May be repeated as topics vary.

COURSE DESCRIPTIONS

POLITICAL SCIENCE

(POSIC)

- 531 AMERICAN POLITICAL PARTIES.
(3-0) 3 hours credit.
An introductory analysis of the institutions, processes, and techniques of political management in the United States. Emphasis will be on the contemporary era and its historical evolution.
- 533 COMPARATIVE POLITICAL INSTITUTIONS AND PROCESSES.
(3-0) 3 hours credit.
A cross-national analysis of specific institutions, processes, and problems. Topics include: political parties, interest groups, bureaucracies, legislatures, political socializations, political leadership, political system performance, etc.
- 555 CONTEMPORARY ISSUES IN AMERICAN GOVERNMENT.
(3-0) 3 hours credit. Prerequisite: Graduate standing.
An in depth examination of the contemporary issues and problems involving government and politics in American society.
- 562 POLITICAL ORGANIZATION OF URBAN CENTERS.
(3-0) 3 hours credit.
An analysis of the alternative types of governmental organizations available to operate cities. The various alternative systems as they affect the development of cities and regions are evaluated.
- 610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

COURSE DESCRIPTIONS

SOCIOLOGY

(SOC)

- 635 SOCIO-PSYCHOLOGICAL DIMENSIONS OF WORK.
(3-0) 3 hours credit.
Problems faced by members of the labor force in an industrialized society and the accompanying stresses that human specialization, obsolescence place on the individual. The impact of work on labor force attitudes and performance. Labor force activity is examined against different cultural backgrounds. Programs to create a better work climate are examined.
- 636 SEMINAR IN URBAN SOCIAL STRATIFICATION.
(3-0) 3 hours credit.
Sociological theories of social organization in urban contexts and recent research in such matters as inter-ethnic relations and sub-systems of stratification.
- 637 SEMINAR IN FAMILY RELATIONS.
(3-0) 3 hours credit.
Examination of specialized areas within the family studies area such as adult education for marriage and workshop sessions for teachers of family courses in public schools.
- 638 SEMINAR IN ADVANCED SOCIAL PSYCHOLOGY.
(3-0) 3 hours credit.
Study of theoretical and substantive bases of social action groups, together with a consideration of the influence of cultural patterns upon individual action patterns.
- 639 SEMINAR IN APPLIED SOCIAL SCIENCE.
(3-0) 3 hours credit.
The application of social science materials, methods, and theories to problems of society at large, government, and small group relations will be evaluated. Case studies will be presented and discussed.

COURSE DESCRIPTIONS

SPANISH

(SPAN)

- 531 CULTURAL AND STRUCTURAL DIMENSIONS OF THE SPANISH LANGUAGE.
(3-0) 3 hours credit.
A consideration of the cultural dimensions of the Spanish language as revealed through the study of the principles of lexical and grammatical change. The theory and application of phonemic and morphemic analysis.
- 532 THE HISPANIC LITERARY HERITAGES.
(3-0) 3 hours credit.
A chronological and eclectic study of the foundations and evolution of Hispanic Literatures through the study of literary genres and movements. Consideration of the contributions of Hispanic Literatures to World Literature.
- 560 MASTERPIECES OF HISPANIC LITERATURES.
(3-0) 3 hours credit.
An in-depth study of selected works from Spain and Spanish America. Correlated study of literary analysis and bibliographical research.
- 561 CONTEMPORARY HISPANIC LITERATURE.
(3-0) 3 hours credit.
A philosophical and artistic analysis of the major writers and works in each literary genre of the 20th Century. Special emphasis will be placed on the philosophical development of the Hispanic man as he invents himself in the current century. One third of the course will deal with the Nobel Laureates.

- 565 SEMINAR IN HISPANIC LITERATURES.
 (3-0) 3 hours credit. Prerequisites: SPAN 560 and SPAN 561.
 Readings and discussions in Hispanic Literatures.
 May be repeated for credit when topics vary. A maximum of 6 hours may be applied to a Master's degree.
 (May be taken in any order.)
- 565A SEMINAR IN HISPANIC LITERATURES: EL MODERNISMO.
 565B SEMINAR IN HISPANIC LITERATURES: SPANISH AMERICAN NOVEL.
 565C SEMINAR IN HISPANIC LITERATURES: SPANISH AMERICAN SHORT STORY.
 565D SEMINAR IN HISPANIC LITERATURES: THE GENERATION OF '98.
 565E SEMINAR IN HISPANIC LITERATURES: RENAISSANCE AND GOLDEN AGE LITERATURE.
 565F SEMINAR IN HISPANIC LITERATURES: 19th CENTURY SPANISH LITERATURE.
- 575 THE HISTORY OF IDEAS IN SPAIN AND SPANISH AMERICA.
 (3-0) 3 hours credit.
 A concentrated, intensive study of the cultural and ideological currents especially as they are manifested in the works of major essayists and other writers of Spain and Spanish America. Topics include: Hispano-Arabic Culture, European Thought in Spanish America, Renaissance, Oriental Influences in Spain, Search for Identity in Mexico, and others.
- 576 SEMINAR IN SPANISH CULTURE AND CIVILIZATION.
 (3-0) 3 hours credit.
 An examination of the evolution of intellectual and artistic developments in Spain as reflected in the Mudéjar, Medieval, and Renaissance Periods and their influence on Spanish culture and civilization.
- 577 SEMINAR IN CONTEMPORARY HISPANIC CULTURES.
 (3-0) 3 hours credit.
 Consideration of contemporary changes in culture and civilization in Spain and Spanish America. Special emphasis on the concept of mestizaje as a synthesis of western and oriental man.
- 580 SEMINAR IN MEXICAN-AMERICAN LITERATURE.
 (3-0) 3 hours credit.
 An examination of the distinct genres of Mexican-American literature as a unique intellectual and creative evolution and as an abridgement of Hispanic Culture and Literature.

- 584 HISTORY OF THE SPANISH LANGUAGE.
(3-0) 3 hours credit.
A systematic, chronological survey of the development of the Spanish Language to the present time. Special emphasis on events and consequent modifications in the language by the realities of state, nation, institutions, science and art, including brief philosophical and etymological interpretations.
- 585 STYLISTICS AND SYNTAX.
(3-0) 3 hours credit.
A study of the optional variations in the sounds, forms, or vocabulary in the Spanish Language as characterized by different users of the language, distinct situations of use, or different literary types. Also, a consideration of the optional variations and the expression of predicative, qualifying and other word relations according to established use.
- 586 SEMINAR IN SPANISH LINGUISTICS.
(3-0) 3 hours credit. Prerequisites: SPAN 584 and SPAN 585.
Research on selected topics. May be repeated for credit when topics vary. A maximum of 6 hours may be applied to a Master's degree. (May be taken in any order.)
- 586A SEMINAR IN SPANISH LINGUISTICS: PHONETICS.
586B SEMINAR IN SPANISH LINGUISTICS: PHONOLOGY.
586C SEMINAR IN SPANISH LINGUISTICS: MORPHOLOGY.
586D SEMINAR IN SPANISH LINGUISTICS: SEMANTICS.
587E SEMINAR IN SPANISH LINGUISTICS: WRITTEN SPANISH GRAMMAR.
- 610, 620, 630 SPECIAL PROBLEMS IN SPANISH LANGUAGE.
1 to 3 hours credit.
Individual directed readings and conferences on select problems or topics in Spanish Language. May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

611, 621, 631 SPECIAL PROBLEMS IN HISPANIC CULTURES.

1 to 3 hours credit.

Individual directed readings and conferences on select problems or topics in Hispanic Cultures. May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

612, 622, 632 SPECIAL PROBLEMS IN HISPANIC LITERATURES.

1 to 3 hours credit.

Individual directed readings and conferences on select problems or topics in Hispanic Literatures. May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

691 MASTER'S THESIS.

(3-0) 3 hours credit.

May be repeated for credit but not more than 6 hours will apply to the Master's degree. Permission of the instructor is required. Enrollment in 691 is required each term the thesis is in progress.

COLLEGE OF MULTIDISCIPLINARY STUDIES

The College of Multidisciplinary Studies, in many ways, epitomizes the spirit and direction of UTSA as an academic community. For the most part, this College offers only graduate degrees even though it pervades the entire University by providing non-traditional and relevant courses which are vital to the University's total curriculum. The programs offered in this College are blends of several disciplinary areas, welded into a specialty that is dependent upon specific knowledge in each area. Many of the innovative and experimental programs generated by the University will find their places within the College of Multidisciplinary Studies.

MASTER OF ARTS DEGREE IN ADVANCED STUDIES IN EDUCATION

Concentrations:

Cultural Foundations of Education
Curriculum and Instruction
Early Childhood and Elementary Education
Educational Management
Institutions of Higher Education

The Master of Arts Degree in Advanced Studies in Education offers five areas of concentration so that students may choose a program of study most suitable to their needs and objectives. Degree plans are designed to prepare competent personnel for public and private elementary and secondary schools, junior colleges and senior colleges and universities, as well as governmental agencies. At the heart of each degree program is the concept of flexibility which enables the degree program to be tailor-made to the particular needs of individual students.

The concentration in Cultural Foundations of Education is suitable for students who intend to complete a Master's degree preparatory to pursuing a Ph.D. degree in Education. The degree program provides broad based expertise in professional education. Research capabilities and cultural investigations are integrated throughout the program. Opportunities are included in the program for students to expand their proficiencies in related and supporting areas.

The concentration in Curriculum and Instruction is one of the most important parts of professional education at the graduate level. The student in this concentration will have an understanding of the integration of the total

school program and will have the opportunity to develop special expertise in an academic area. Throughout the program the concepts of curricular innovation and excellence of teaching will be stressed. Classroom teachers will find this concentration of particular interest because of the opportunities to blend subject matter, curricular and instructional concepts with applied research and, as a result, demonstrate educational leadership.

The Early Childhood and Elementary Education concentration will stress human growth and development since a large amount of the adult the child becomes is determined long before he reaches first grade. Included in the program is learning theory and familiarization with current research and research methods. Students in this program will learn how to observe and identify symptoms of learning problems as well as knowing how to cope with them effectively. This concentration is designed primarily for experienced classroom teachers at the early childhood and elementary levels.

The concentration in Educational Management is designed for those individuals who desire careers in public and private school systems, the elementary schools and secondary schools in administrative positions. This concentration will prepare individuals to understand instructional problems and educational philosophies as well as to develop expertise in management and the applications of management to educational settings. Sufficient flexibility is provided to allow students in this program to obtain additional training in related areas which will increase effectiveness in the educational setting while increasing their broad knowledge of the elementary and secondary educational processes. Students seeking

administrative certification will be able to complete the requirements for this concentration while obtaining professional certification in administration and supervision.

The Institutions of Higher Education concentration is designed for those individuals seeking a career in the increasingly important areas of administration at the junior college, college or university levels. While many professionals will continue beyond the Master's level and seek the Ph.D. degree in this area, this program serves both the student for whom the MA degree is terminal and the student who is pursuing the MA degree as an intermediate program leading to the doctorate. Sufficient flexibility is incorporated in the program to allow students to obtain an understanding of the role, scope, and interactions of institutions of higher education, along with specialized areas in which professional competency will be required. In addition to the particular characteristics of institutions of higher education and the multitude of critical issues involved, students will complete considerable work outside the area of professional education which is especially applicable to the particular areas of administration sought.

Special Admission Requirements. Students seeking admission to the Master of Arts Degree in Advanced Studies in Education will be required to meet the University-wide admission requirements. Students who are teachers, or who anticipate careers in teaching, should have completed certification requirements prior to pursuing the Master's degree. Individuals without adequate preparation in Education may be required to satisfactorily complete

preparatory courses as a condition of admission; however, UTSA will not offer preparatory work until the University is on its permanent campus.

Degree Requirements. All candidates for the Master of Arts Degree in Advanced Studies in Education will, in addition to the General Regulations for the Master's Degree, be required to select a concentration and successfully complete either Option I or Option II for that concentration as indicated on the following pages.

Concentration in Cultural Foundations of Education

Option I (a total of 30 semester hours including thesis is required):

- EDUC 530. RESEARCH METHODS IN EDUCATION.
- EDUC 532. EVOLUTION OF EDUCATIONAL THOUGHT.
- EDUC 563. SOCIO-ECONOMIC PROBLEMS IN EDUCATION.
- EDUC 571. LEGAL FOUNDATIONS OF EDUCATION.
- EDUC 581. CONTEMPORARY EDUCATIONAL PHILOSOPHY.
- EDUC 583. CULTURAL FOUNDATIONS OF EDUCATION.
- EDUC 691 (6 hours). MASTER'S THESIS.

Six (6) semester hours of course work in a supporting area, as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of course work is required):

- EDUC 530. RESEARCH METHODS IN EDUCATION.
- EDUC 532. EVOLUTION OF EDUCATIONAL THOUGHT.
- EDUC 563. SOCIO-ECONOMIC PROBLEMS IN EDUCATION.
- EDUC 571. LEGAL FOUNDATIONS OF EDUCATION.
- EDUC 581. CONTEMPORARY EDUCATIONAL PHILOSOPHY.
- EDUC 583. SOCIAL FOUNDATIONS OF EDUCATION.

Nine (9) hours of course work in a field outside of Education, as approved by the Graduate Advisor.

Nine (9) hours of electives, as approved by the Graduate Advisor and Dean.

Concentration in Curriculum and Instruction

Option I (a total of 30 semester hours including thesis is required):

- EDUC 530. RESEARCH METHODS IN EDUCATION.
- EDUC 531. INFERENCEAL EDUCATIONAL STATISTICS.
- EDUC 581. CONTEMPORARY EDUCATIONAL PHILOSOPHY.

Two of the following:

- CURR 561. EARLY CHILDHOOD AND ELEMENTARY SCHOOL CURRICULA.
- CURR 571. SECONDARY SCHOOL CURRICULA.
- CURR 581. HIGHER EDUCATION CURRICULA.
- CURR 591. SEMINAR IN CURRICULUM BUILDING.
- EDUC 691 (6 hours). MASTER'S THESIS.

Six (6) semester hours of course work in a supporting area, as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of course work is required):

- EDUC 530. RESEARCH METHODS IN EDUCATION.
- EDUC 531. INFERENCEAL EDUCATIONAL STATISTICS.
- EDUC 581. CONTEMPORARY EDUCATIONAL PHILOSOPHY.

Two of the following:

- CURR 561. EARLY CHILDHOOD AND ELEMENTARY SCHOOL CURRICULA.
- CURR 571. SECONDARY SCHOOL CURRICULA.
- CURR 581. HIGHER EDUCATION CURRICULA.
- CURR 591. SEMINAR IN CURRICULUM BUILDING.

Nine (9) hours of course work in a second field, as approved by the Graduate Advisor and Dean.

Nine (9) hours of electives, as approved by the Graduate Advisor and Dean.

Concentration in Early Childhood and Elementary Education

Option I (a total of 30 semester hours including a thesis is required):

- ECED 561. SEMINAR ON DEVELOPMENT IN EARLY CHILDHOOD AND INFANCY.
 ECED 565. BEHAVIOR DISORDERS IN CHILDREN.
 EDUC 530. RESEARCH METHODS IN EDUCATION.

Either "A" or "B" below:

- A { ECED 571. DIAGNOSTIC AND CORRECTIVE READING TECHNIQUES.
 ECED 581. SPECIALIZED INSTRUCTION IN THE ELEMENTARY SCHOOL.
 EDUC 581. CONTEMPORARY EDUCATIONAL PHILOSOPHY.

- B { ECED 575. LANGUAGE DEVELOPMENT DURING EARLY CHILDHOOD.
 EDUC 565. LEARNING THEORIES RELATED TO HUMAN DEVELOPMENT.
 EDUC 585. EDUCATION, CULTURE DIFFERENCES AND ACCULTURATION.

EDUC 691 (6 hours). MASTER'S THESIS.

Six (6) hours of course work in a supporting area, as approved by the Graduate Advisor.

Option II (a total of 36 semester hours of approved course work is required):

- ECED 561. SEMINAR ON DEVELOPMENT IN EARLY CHILDHOOD AND INFANCY.
 ECED 565. BEHAVIOR DISORDERS IN CHILDREN.
 EDUC 530. RESEARCH METHODS IN EDUCATION.

Either "A" or "B" below:

- A { ECED 571. DIAGNOSTIC AND CORRECTIVE READING TECHNIQUES.
 ECED 581. SPECIALIZED INSTRUCTION IN THE ELEMENTARY SCHOOL.
 EDUC 581. CONTEMPORARY EDUCATIONAL PHILOSOPHY.

- B { ECED 575. LANGUAGE DEVELOPMENT DURING EARLY CHILDHOOD.
 EDUC 565. LEARNING THEORIES RELATED TO HUMAN DEVELOPMENT.
 EDUC 585. EDUCATION, CULTURE DIFFERENCES AND ACCULTURATION.

Nine (9) hours of course work in a second field, as approved by the Graduate Advisor and Dean.

Nine (9) hours of electives, as approved by the Graduate Advisor and Dean.

Concentration in Educational Management

Option I (a total of 30 semester hours including a thesis is required):

- EDUC 530. RESEARCH METHODS IN EDUCATION.
- EDUC 581. CONTEMPORARY EDUCATIONAL PHILOSOPHY.
- MGMT 530. FOUNDATIONS OF MANAGEMENT.
- EDMG 561. SCHOOL FINANCE AND TAXATION.
- EDMG 571. SCHOOL AND COMMUNITY RELATIONS.
- EDMG 581. PERSONNEL ADMINISTRATION.
- EDUC 691 (6 hours). MASTER'S THESIS.

Six (6) hours of course work in a supporting area (a field in Business is strongly recommended), as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of course work is required):

- EDUC 530. RESEARCH METHODS IN EDUCATION.
- EDUC 581. CONTEMPORARY EDUCATIONAL PHILOSOPHY.
- MGMT 530. FOUNDATIONS OF MANAGEMENT.
- EDMG 561. SCHOOL FINANCE AND TAXATION.
- EDMG 571. SCHOOL AND COMMUNITY RELATIONS.
- EDMG 581. PERSONNEL ADMINISTRATION.

Nine (9) hours of course work in a second field (a field in Business is strongly recommended), as approved by the Graduate Advisor and Dean.

Nine (9) hours of electives, as approved by the Graduate Advisor and Dean.

Concentration in Institutions of Higher Education

Option I (a total of 30 semester hours including a thesis is required):

- EDUC 530. RESEARCH METHODS IN EDUCATION.
- MGMT 530. FOUNDATIONS OF MANAGEMENT.
- HED 571. RESOURCE ALLOCATIONS IN HIGHER EDUCATION.
- HED 581. SEMINAR IN GOVERNANCE OF HIGHER EDUCATION.
- HED 591. THE AMERICAN COLLEGE STUDENT.
- HED 595. CONTEMPORARY THOUGHT IN HIGHER EDUCATION.
- EDUC 691 (6 hours). MASTER'S THESIS.

Six (6) hours of course work in a supporting area (a field in Business is strongly recommended), as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of course work is required):

- EDUC 530. RESEARCH METHODS IN EDUCATION.
- MGMT 530. FOUNDATIONS OF MANAGEMENT.
- HED 571. RESOURCE ALLOCATIONS IN HIGHER EDUCATION.
- HED 581. SEMINAR IN GOVERNANCE OF HIGHER EDUCATION.
- HED 591. THE AMERICAN COLLEGE STUDENT.
- HED 595. CONTEMPORARY THOUGHT IN HIGHER EDUCATION.

Nine (9) hours of course work in a second field (a field in Business is strongly recommended), as approved by the Graduate Advisor and Dean.

Nine (9) hours of electives, as approved by the Graduate Advisor and Dean.

MASTER OF ARTS DEGREE IN BICULTURAL-BILINGUAL STUDIES

Concentrations in:

Bicultural Studies
Bilingual Teacher Education

The *Master of Arts Degree in Bicultural-Bilingual Studies* represents a unique venture in meeting several societal needs. The concentration in Bilingual Teacher Education carries beyond the baccalaureate degree in Early Childhood and Elementary Education and leads to intensive language training and associated cultural studies. The concentration in Bicultural Studies is designed for students with a variety of undergraduate backgrounds and offers multi-cultural studies with intensive specialization in a combination of two cultures (initially American and Spanish/Latin American). Graduates will attain an in-depth familiarity with the physical, social, and economic environment of the cultures studied. Some work in the degree plan is in the area of the student's undergraduate major with special attention given to the chosen culture setting.

Special Admission Requirements. Students entering this program must, in addition to the University-wide admission requirements, demonstrate proficiency in both the Spanish and English languages by satisfactorily passing an examination in these languages.

Degree Requirements. All candidates for the *Master of Arts Degree in Bicultural-Bilingual Studies* will, in addition to the General Regulations for the Master's Degree, be required to select a concentration and successfully complete either Option I or Option II for their concentration as indicated below.

Concentration in Bicultural Studies

Option I (a total of 30 semester hours including a thesis is required):

BCBL 530. CULTURAL DIMENSIONS OF THE SPANISH AND ENGLISH LANGUAGES.

BCBL 531. FOUNDATIONS OF HISPANIC CULTURES.

BCBL 532. BICULTURALISM: U.S.-MEXICO.

SPAN 580. SEMINAR IN MEXICAN-AMERICAN LITERATURE.

HIST 590. THE GREATER SOUTHWEST.

BCBL 691 (6 hours). MASTER'S THESIS.

One of the following:

ART 561. ART AND ARCHITECTURE OF MEXICO AND MEXICAN AMERICA.

ART 562. PRE-COLUMBIAN ART AND ARCHITECTURE OF MESOAMERICA.

Six (6) semester hours of course work in a supporting area, as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours, non-thesis program):

BCBL 530. CULTURAL DIMENSIONS OF THE SPANISH AND ENGLISH LANGUAGES.

BCBL 531. FOUNDATIONS OF HISPANIC CULTURES.

BCBL 532. BICULTURALISM: U.S.-MEXICO.

SPAN 580. SEMINAR IN MEXICAN-AMERICAN LITERATURE.

HIST 590. THE GREATER SOUTHWEST.

One of the following:

ART 561. ART AND ARCHITECTURE OF MEXICO AND MEXICAN AMERICA.

ART 562. PRE-COLUMBIAN ART AND ARCHITECTURE OF MESOAMERICA.

Nine (9) semester hours of course work in a second field, as approved by the Graduate Advisor and Dean.

Nine (9) semester hours of course work in Bicultural-Bilingual Studies, or from a second field, or in a related area, as approved by the Graduate Advisor and Dean.

Concentration in Bilingual Teacher Education

Option I (a total of 50 semester hours including a thesis is required):

BCBL 530. CULTURAL DIMENSIONS OF THE SPANISH AND ENGLISH LANGUAGES.

BCBL 531. FOUNDATIONS OF HISPANIC CULTURES.

BCBL 532. BICULTURALISM: U.S.-MEXICO.

BCBL 561. ADVANCED ENGLISH AND SPANISH CONVERSATION AND RHETORIC.

BCBL 573. BICULTURAL FOUNDATIONS OF LEARNING.

BCBL 691 (6 hours). MASTER'S THESIS.

Nine (9) semester hours of supporting course work, as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours, non-thesis program):

BCBL 530. CULTURAL DIMENSIONS OF THE SPANISH AND ENGLISH LANGUAGES.

BCBL 531. FOUNDATIONS OF HISPANIC CULTURES.

BCBL 532. BICULTURALISM: U.S.-MEXICO.

BCBL 561. ADVANCED ENGLISH AND SPANISH CONVERSATION AND RHETORIC.

BCBL 573. BICULTURAL FOUNDATIONS OF LEARNING.

BCBL 575. TECHNIQUES OF TEACHING TO DEVELOP BILINGUALISM.

Nine (9) semester hours of course work in a second field, as approved by the Graduate Advisor and Dean.

Nine (9) semester hours of course work in Bicultural-Bilingual Studies, the second field, or from a related area, as approved by the Graduate Advisor and Dean.

MASTER OF SCIENCE DEGREE IN BICULTURAL-BILINGUAL STUDIES

Concentration in Bilingual Medical Interpreting

The Master of Science Degree with a concentration in Bilingual Medical Interpreting is a unique graduate program designed to prepare specialists who combined fluency in English and one other language (initially Spanish) with a solid foundation in the life sciences and medical concepts and terminology. The problems encountered in health care delivery systems with non-English speaking patients can be remedied only by the availability of specialized interpreters. This program will prepare individuals to serve as gatherers, interpreters, and managers of medical data in bilingual settings in which both oral and written sources of information are studied.

Special Admission Requirements. In addition to the University-wide admission requirements, students entering this program must demonstrate proficiency in both the Spanish and English languages by satisfactorily passing an examination in these languages. Instead of the requirement of a minimum of 18 hours of specific undergraduate work, an individual review of the applicant's background will be made in order to ensure adequate preparation for graduate study.

Degree Requirements. All candidates for the Master of Science Degree in Bicultural-Bilingual Studies, with a concentration in Bilingual Medical Interpreting will, in addition to the General Regulations for the Master's Degree, be required to successfully complete the following courses.

- BMI 530. SOCIO-CULTURAL FOUNDATIONS OF MEDICINE.
- BIOL 533A. MEDICAL LIFE SCIENCES I.
- BIOL 533B. MEDICAL LIFE SCIENCES II.
- BMT 561A. MEDICAL TERMINOLOGY I.
- BMT 561B. MEDICAL TERMINOLOGY II.
- BMI 571. HEALTH CARE DELIVERY SYSTEMS.
- ANTH 580. MEDICAL ANTHROPOLOGY.
- BMI 581. GATHERING, REPORTING, AND MANAGEMENT OF MEDICAL DATA.
- BMT 633. SEMINAR IN BILINGUAL MEDICAL INTERPRETING.
- BCBL 660A, B, C. INTERNSHIP.

Under certain circumstances and with the approval of the Graduate Advisor and Dean, students may select Option 1 in which six hours of thesis may be substituted for six hours of required course work and the program adjusted to a minimum of 30 semester hours of credit including the thesis.

Students who have previously completed the equivalent of any of the above courses will be permitted to substitute other related courses, as approved by the Graduate Advisor and Dean.

MASTER OF ARTS DEGREE IN ENVIRONMENTAL MANAGEMENT

Concentrations in:

Management of Human Resources
Urban Studies

The Master of Arts Degree in Environmental Management with concentrations in Management of Human Resources and Urban Studies is available to students whose undergraduate degrees are in a variety of areas. Upon completion of one of the concentrations, the graduate can look forward to a career with government agencies, industry, or planning organizations. The concentration in Management of Human Resources is especially well-suited for those individuals who wish to prepare for careers in manpower management in the public or private sectors. The concentration in Urban Studies is intended for those individuals seeking positions in city government and with governmental planning organizations.

Special Admission Requirements. There are no special admission requirements in addition to the University-wide requirements which apply for admission to the Master of Arts Degree program in Environmental Management. Instead of the requirement of a minimum of 18 hours of specific undergraduate work, an individual review of the applicant's background will be made in order to ensure adequate preparation for graduate study.

Degree Requirements. Each candidate for the Master of Arts Degree in Environmental Management will, in addition to the General Regulations for the Master's Degree, be required to successfully complete a concentration

in Management of Human Resources or Urban Studies and either Option I or Option II for that concentration as indicated below.

Concentration in Management of Human Resources

Option I (a total of 30 semester hours including thesis is required):

- ENVN 560. INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES.
- ENVN 562. HUMAN AND NATURAL RESOURCES.
- ENVN 564. CONCEPTS FOR ENVIRONMENTAL MANAGEMENT.
- ECON 571. ECONOMICS OF HUMAN RESOURCES.
- ECON 632. MANPOWER POLICY.
- ENVN 633. MANPOWER TRAINING.
- ENVK 691 (6 hours). MASTER'S THESIS.

Six (6) semester hours of course work in a supporting area, as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of approved course work is required):

- ENVN 560. INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES.
- ENVN 562. HUMAN AND NATURAL RESOURCES.
- ENVN 564. CONCEPTS FOR ENVIRONMENTAL MANAGEMENT.
- ECON 571. ECONOMICS OF HUMAN RESOURCES.
- ECON 632. MANPOWER POLICY.
- ENVN 633. MANPOWER TRAINING.
- ENVN 681A. INTERNSHIP.

Nine (9) semester hours of course work in a second field, as approved by the Graduate Advisor and Dean.

Six (6) semester hours of course work in Environmental Management or the second field, or from a supporting area, as approved by the Graduate Advisor and Dean.

REQUIREMENTS FOR M.A. II

Option I (a total of 30 semester hours including thesis is required):

- ECON 575. URBAN ECONOMICS.
- ENVN 560. INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES.
- ENVN 562. HUMAN AND NATURAL RESOURCES.
- ENVN 564. CONCEPTS FOR ENVIRONMENTAL MANAGEMENT.
- ENVN 564. ECOLOGICAL DIMENSIONS OF URBAN SYSTEMS.
- ENVN 591 (6 hours). MASTER'S THESIS.
- POSC 562. POLITICAL ORGANIZATION OF URBAN CENTERS.

Six (6) semester hours of course work in a supporting area, as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of approved course work is required):

- ECON 575. URBAN ECONOMICS.
- ENVN 560. INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES.
- ENVN 562. HUMAN AND NATURAL RESOURCES.
- ENVN 564. CONCEPTS FOR ENVIRONMENTAL MANAGEMENT.
- ENVN 664. ECOLOGICAL DIMENSIONS OF URBAN SYSTEMS.
- ENVN 665. URBAN RESEARCH.
- ENVN 681A. INTERNSHIP.
- POSC 562. POLITICAL ORGANIZATION OF URBAN CENTERS.

Six (6) semester hours of course work in a related field, as approved by the Graduate Advisor and Dean.

Six (6) semester hours of course work in Environmental Management, from the related field, or from another supportive area, as approved by the Graduate Advisor and Dean (ENVN 666 and FIN 663 are suggested).

MASTER OF SCIENCE DEGREE IN ENVIRONMENTAL MANAGEMENT

Concentration in Management of Natural Resources

The Master of Science Degree in Environmental Management with a concentration in the Management of Natural Resources is designed for individuals whose backgrounds are in the sciences or management. Students are prepared for positions as managers of operations involving the utilization of natural resources. Both the macro society approach and the macro institutional aspects are studied throughout the program.

Because of the multidisciplinary approach to this program, two avenues are available. One is for those who have undergraduate degrees in the sciences or have a satisfactory foundation in the sciences. A second plan for the degree program is for students whose background in the sciences is not at a level which would enable them to proceed in the graduate program without additional study in the sciences. For students following this plan, foundation courses will be available which serve as prerequisites for the courses required for this degree.

Special Admission Requirements. There are no special admission requirements in addition to the University-wide requirements which apply for admission to the Master of Science Degree program in Environmental Management. Instead of the requirement of a minimum of 18 hours of specific undergraduate work, an individual review of the applicant's background will be made in order to ensure adequate preparation for graduate study.

Degree Requirements. Some or all of the following foundation courses may be required as conditions for students whose background in the sciences is insufficient to permit full admission to the graduate degree program:

- PHSC 530A. PHYSICAL SCIENCE STUDIES I.
- PHSC 530B. PHYSICAL SCIENCE STUDIES II.
- BIOL 531. FUNDAMENTALS OF LIFE SCIENCE.
- ERTH 532. FUNDAMENTAL EARTH SCIENCE STUDIES.

All candidates for the Master of Science Degree in Environmental Management will, in addition to the General Regulations for the Master's Degree, be required to successfully complete either Option I or Option II as indicated below.

Option I (a total of 30 semester hours including a thesis is required):

- ENVN 560. INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES.
- ENVN 561. APPLIED ECOLOGY.
- ENVN 563. ECONOMICS OF NATURAL RESOURCES.
- ENVN 571. WATER MANAGEMENT.
- ENVN 575. LAND MANAGEMENT.
- ENVN 591. BUSINESS DIMENSIONS OF ENVIRONMENTAL MANAGEMENT.
- ENVN 691 (6 hours). MASTER'S THESIS.

Six (6) hours of course work in a related field, as approved by the Graduate Advisor and Dean.

Option 11 (a total of 36 semester hours, non-thesis program):

- ENVN 560. INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES.
- ENVN 561. APPLIED ECOLOGY.
- ENVN 563. ECONOMICS OF NATURAL RESOURCES.
- ENVN 571. WATER MANAGEMENT.
- ENVN 575. LAND MANAGEMENT.
- ENVN 585. ECONOMIC GEOLOGY.
- ENVN 591. BUSINESS DIMENSIONS OF ENVIRONMENTAL MANAGEMENT.
- ENVN 671. SEMINAR IN NATURAL RESOURCE MANAGEMENT.
- ENVN 681A. INTERNSHIP.

Nine (9) semester hours of electives of course work approved by the Graduate Advisor and Dean.

COURSE DESCRIPTIONS

BICULTURAL-BILINGUAL STUDIES

(BCBL)

- 530 CULTURAL DIMENSIONS OF THE SPANISH AND ENGLISH LANGUAGES.
(3-0) 3 hours credit.
Philological, phonetic, and historical linguistic survey of Spanish and English. Their relationship to each other and to other Indo-European languages and in the case of Spanish also to the indigenous languages of Mexico, Central America and South America. Cultural factors influencing linguistic change.
- 531 FOUNDATIONS OF HISPANIC CULTURES.
(3-0) 3 hours credit.
A study of Iberian history and the confluence of cultures resulting from the colonization of America. A survey of the content of intellectual and artistic development as evidenced in the utilization of the physical, cultural, spiritual and human resources of the Iberian Peninsula and Spanish America. Methods and techniques of cultural analysis.
- 532 BICULTURALISM: U.S.-MEXICO.
(3-0) 3 hours credit.
U.S.-Mexico based biculturalism: the multicultural antecedents. The pre-Columbian, colonial, and contemporary worlds of Mexico and the American Southwest are studied through the art, architecture, literature, and music. Political, economic, and religious developments in the area are also treated.
- 561 ADVANCED ENGLISH AND SPANISH CONVERSATION AND RHETORIC.
(3-0) 3 hours credit.
Intensive practice in the art of writing and speaking Spanish and English as a means of communication or persuasion. Skills developed in the effective use of speech in both languages.

- 571 CULTURAL ADAPTATION SUPPORTIVE OF BILINGUALISM.
(3-0) 3 hours credit.
The study of institutions, artifacts, fine arts, and their implications for assimilation into bilingual language patterns. Special techniques of explanation of cultural concepts unfamiliar to kindergarten and primary grade children will be explored.
- 573 BICULTURAL FOUNDATIONS OF LEARNING.
(3-0) 3 hours credit.
A consideration of the philosophies, research, and theories of the bicultural environment's effect on student self-concept and self-awareness, as it relates to the learning process of individual children. Special consideration on designing individualized instruction in bilingual education.
- 575 TECHNIQUES OF TEACHING TO DEVELOP BILINGUALISM.
(3-0) 3 hours credit.
A study of the different methodologies and techniques and the utilization of media in developing bilingualism. Curricular materials and supplemental reading will be compared and presented in both languages to assure teacher comprehension of the delicacy of communication of thoughts expressed in one language and comprehended in another.
- 610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.
- 691 MASTER'S THESIS.
(3-0) 3 hours credit.
May be repeated for credit but not more than 6 hours will apply to the Master's degree. Permission of the instructor is required. Enrollment in BCBL 691 is required each term the thesis is in progress.

COURSE DESCRIPTIONS

BILINGUAL MEDICAL INTERPRETING

(BMI)

(Courses may be taught in English or Spanish or both, depending on the needs of the students.)

- 530 SOCIO-CULTURAL FOUNDATIONS OF MEDICINE.
 (3-0) 3 hours credit. Prerequisite: Graduate standing.
 A course dealing with the role of medicine in society studied from historical as well as contemporary points of view. Specific areas covered are the contributions of medicine to human betterment, preparation of physicians, role of medical research, changing role of medical technology, and the economics of medical care. The student is given a comprehensive overall view of the various branches of medical activity.
- 561A MEDICAL TERMINOLOGY I.
 (3-0) 3 hours credit.
 An intensive study of important medical terminology and concepts. Students will be expected to be bilingual in English and Spanish in conveying an understanding of this medical knowledge.
- 561B MEDICAL TERMINOLOGY II.
 (3-0) 3 hours credit.
 A continuation of 561A in which additional terminology and concepts will be studied as well as reinforcement of the bilingual aspects of communicating this information.
- 571 HEALTH CARE DELIVERY SYSTEMS.
 (3-0) 3 hours credit. Prerequisite: BMI 530.
 An examination of medical centers, hospitals, clinics, and private physicians' offices as they function to provide needed health services for the population. Special emphasis will be made to give the student an understanding of the organization and functions of hospitals and medical centers, both public and private.

- 581 GATHERING, REPORTING, AND MANAGEMENT OF MEDICAL DATA.
(3-0) 3 hours credit.
A study of patient interviewing techniques and analysis of the information for eventual use by the physician. The management of this data for maintenance and ready accessibility is examined.
- 610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.
- 633 SEMINAR IN BILINGUAL MEDICAL INTERPRETING.
(3-0) 3 hours credit.
A course intended to provide the student with an opportunity to study current problems relating to this area of medicine.
- 660A, B, C. INTERNSHIP.
(0-9) 3 hours credit each. Prerequisite: Approval of Dean.
An opportunity is provided the student to work in a health care delivery setting in a situation which permits him to apply the knowledge learned in the formal instruction part of the program. Enrollment in the internship must not exceed a total of 6 hours in any one semester, nor more than 3 hours in any one summer session. Enrollment is required for at least two semesters or one semester and two 6-weeks summer sessions.
- 691 MASTER'S THESIS.
(3-0) 3 hours credit.
May be repeated for credit but not more than 6 hours will apply to the Master's degree. Permission of the instructor is required. Enrollment in BMI 691 is required each term the thesis is in progress.

COURSE DESCRIPTIONS

CURRICULUM AND INSTRUCTION

(CURR)

- 561 EARLY CHILDHOOD AND ELEMENTARY SCHOOL CURRICULA.
(3-0) 3 hours credit. Prerequisite: EDUC 530.
A systematic analysis of Early Childhood and Elementary School Curriculum. A critical study of objectives, methods of organization, content, methods, and materials of learning used with young children.
- 571 SECONDARY SCHOOL CURRICULA.
(3-0) 3 hours credit. Prerequisite: EDUC 530.
A systematic analysis of secondary school curricula. A critical study of objectives, methods of organization, content, methods, and materials of learning used with youth.
- 581 HIGHER EDUCATION CURRICULA.
(3-0) 3 hours credit. Prerequisite: EDUC 530.
A systematic analysis of higher education curricula. A critical study of objectives, methods of organization, content, methods and material of learning used with college students.
- 591 SEMINAR IN CURRICULUM BUILDING.
(3-0) 3 hours credit. Prerequisite: EDUC 561 or EDUC 571 or EDUC 581.
Selection and organization of the content, materials and methods of instruction, teaching and learning in specialized areas of subject matter are critically evaluated. Students will be required to develop curricula and establish plans for implementation.
- 595 DEVELOPMENT OF INSTRUCTIONAL MATERIALS.
(3-0) 3 hours credit.
A course dealing with the development and implementation of instructional materials. Special attention will be given to designing programs suitable for audio-visual tutorial, self-paced instruction that will permit flexibility for different student learning styles.

610, 620, 630 SPECIAL PROBLEMS.

1 to 3 hours credit.

May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

COURSE DESCRIPTIONS

EARLY CHILDHOOD AND ELEMENTARY EDUCATION

(ECED)

- 561 SEMINAR ON DEVELOPMENT IN EARLY CHILDHOOD AND INFANCY.
(3-0) 3 hours credit.
Studies of the results of stimulating sensory equipment in the early years and investigation of insufficient psychological and physiological nourishment. Deviations from steady differentiation of emotional responses during early childhood, achievement motivation and studies of frustration and tolerance. Includes suggested practices that may enable future generations to avoid developmental disruptions and to alleviate existing developmental handicaps.
- 563 PRE-SCHOOL LEARNING THEORIES.
(3-0) 3 hours credit.
Analysis of ideas and practices advocated by leading contemporary early childhood specialists. Evaluation of these approaches through the observation of children to determine the degree of adequacy and practicality of these theories.
- 565 BEHAVIOR DISORDERS IN CHILDREN.
(3-0) 3 hours credit. Prerequisite: EDUC 530.
A careful analysis of the total array of the learning strengths and weaknesses of the child at each stage of development as the basis of his curricular diet.
- 571 DIAGNOSTIC AND CORRECTIVE READING TECHNIQUES.
(3-0) 3 hours credit.
Diagnosis of reading disabilities, remedial measures, and work with clinical cases. Incentives and skills used to teach the poor reader.
- 575 LANGUAGE DEVELOPMENT DURING EARLY CHILDHOOD.
(3-0) 3 hours credit.
Patterns of acquisition of language skills among the young of diverse ethnic groups will be analyzed in order to identify experiences that promote language development in early childhood.

581 SPECIALIZED INSTRUCTION IN THE ELEMENTARY SCHOOL.
(3-0) 3 hours credit. Prerequisite: EDUC 550.
Depth investigations of experimental programs in
special areas of knowledge such as Mathematics, Science,
Social Studies, will be made. Students will complete
a field study.

610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to
a Master's degree. All work required for credit must be
submitted to the instructor two weeks prior to the final
examination period and must be completed no later than
one year from the date of enrollment in the course.
Requires permission of the instructor.

COURSE DESCRIPTIONS

EDUCATION

(EDUC)

- 530 RESEARCH METHODS IN EDUCATION.
(3-0) 3 hours credit. Prerequisite: Admission to graduate program.
Sources for locating research information, basic concepts of research design, strategies of historical, descriptive, and experimental research, and descriptive statistics.
A field study will be required.
- 531 INFERENTIAL EDUCATIONAL STATISTICS.
(3-0) 3 hours credit. Prerequisite: EDUC 530.
A study of inferential statistics and the application to the fields in education. Field study.
- 532 EVOLUTION OF EDUCATIONAL THOUGHT.
(3-0) 3 hours credit.
An analysis of the educational writings and teachings of Plato, Aristotle, the Scholasticists, Comenius, Dewey, Froebel, Herbart, Kant, Locke, Pestalozzi, Rousseau, and Spencer and the impact on contemporary educational theory and practice.
- 561 PSYCHOLOGICAL BASIS FOR LEARNING.
(3-0) 3 hours credit. Prerequisite: EDUC 530.
A concentrated analysis of mental processes important to learning and an evaluation of the major concepts, theories, and results of research in learning as applied to education.
- 563 SOCIO-ECONOMIC PROBLEMS IN EDUCATION.
(3-0) 3 hours credit. Prerequisite: EDUC 530.
Identification and analysis of the major socio-economic problems in education, evaluation of attempted historical solutions, and policy formation.

- 565 LEARNING THEORIES RELATED TO HUMAN DEVELOPMENT.
(3-0) 3 hours credit.
Based on the observation of students and the study of learning theories, the relationships of age group characteristics, developmental tasks, behavioral changes from pre-school through high school to academic achievement are studied.
- 571 LEGAL FOUNDATIONS OF EDUCATION.
(3-0) 3 hours credit.
Analysis of current legal basis and practices in the governance of education and the implications of significant court decisions pertaining to school operations.
- 581 CONTEMPORARY EDUCATIONAL PHILOSOPHY.
(3-0) 3 hours credit.
A critical examination of selected contemporary philosophies and an evaluation of their assimilation into educational thought and practices.
- 585 CULTURAL FOUNDATIONS OF EDUCATION.
(3-0) 3 hours credit.
An analysis of the role of the school in American society with special emphasis on its status, role, activities and relationships both within the school and as related to culture, the economy, technology, and change.
- 585 EDUCATION, CULTURE DIFFERENCES AND ACCULTURATION.
(3-0) 3 hours credit.
Educational changes and adjustments resulting from the interaction of a variety of different cultural backgrounds in the modern school. Specialized techniques, processes, and programs designed for the pre-school and primary levels to meet unique learning needs of the non-English speaking child.
- 610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course.
Requires permission of the instructor.

691 MASTER'S THESIS.
(3-0) 3 hours credit.
May be repeated for credit but not more than 6 hours will
apply to the Master's degree. Permission of the instructor
is required. Enrollment in EDUC 691 is required each term
the thesis is in progress.

COURSE DESCRIPTIONS

EDUCATIONAL MANAGEMENT

(EDMG)

- 561 SCHOOL FINANCE AND TAXATION.
(3-0) 3 hours credit.
Current problems, issues, and practices in local, state and federal financial support for primary and secondary schools and the relation of school finance problems to broader socio-economic issues.
- 571 SCHOOL AND COMMUNITY RELATIONS.
(3-0) 3 hours credit.
Parent participation in the school and strategies for informing the community about school activities and promoting school community interactions are analyzed. Studies will be made on interrelationships among the home, schools, and community.
- 581 PERSONNEL ADMINISTRATION.
(3-0) 3 hours credit. Prerequisite: MGMT 530.
Problems in the personnel administration of public and private schools. Policies affecting personnel, rights and responsibilities of students and teachers, insurance, salary schedule, retirement, sick leave, collective negotiations, and auxiliary enterprises.
- 610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.
- 660A, B INTERNSHIP IN EDUCATIONAL MANAGEMENT.
(0-9) 3 hours credit each. Prerequisite: Permission of Dean.
Supervised on-the-job experience with related reading and study. The intern will work with school administrator in applying management fundamentals to an ongoing school program. Students are exposed to decision-making processes such as program development, plant utility, financial and personnel management.

COURSE DESCRIPTIONS

ENVIRONMENTAL MANAGEMENT

(ENVN)

- 560 INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES.
(3-0) 3 hours credit. Prerequisite: A statistics course.
A course intended to give the student the quantitative tools to gather, analyze, present, and interpret information dealing with human and natural resources. An effort is made to apply analytical tools to the interaction of these resources in an urban environment.
- 561 APPLIED ECOLOGY.
(3-0) 3 hours credit.
The impact of economic and related activity on the environment as it pertains to its effect on water, land, animal, and human resources. An evaluation of programs available and possible future undertakings to preserve a healthy environment which will be compatible with economic progress.
- 562 HUMAN AND NATURAL RESOURCES.
(3-0) 3 hours credit.
A study of the various dimensions of population as a resource or study emphasizing demographic variables such as birth rates, health, skills, and the role of humans in the environment. Natural resources are viewed from the contribution they make to the growth process of society. Major natural resources covered are water, land, and wild life. The changing role of human and natural resources as they relate to technology over time is analyzed.
- 563 ECONOMICS OF NATURAL RESOURCES.
(3-0) 3 hours credit.
A study of governmental and private programs to promote prudent, efficient use of natural resources by society. Cost benefit analysis is utilized to evaluate alternate solutions in formulating policy.

- 564 CONCEPTS FOR ENVIRONMENTAL MANAGEMENT.
 (3-0) 3 hours credit.
 The application of management concepts as they relate to the development of human and natural resources and as they apply to urban growth. The initiation, organization, and development of programs to utilize efficiently human and natural resources in urban growth are examined.
- 571 WATER MANAGEMENT.
 (3-0) 3 hours credit.
 An application of management principles to the efficient utilization of water resources by society. A study of water as a resource, its value, uses and changing role over time, as a result of ecological change. The formulation of public policy toward water resources is studied.
- 575 LAND MANAGEMENT.
 (3-0) 3 hours credit.
 An analysis of the various alternative uses of land and the methodology by which land is evaluated so as to put it to its most productive uses. The changing role of land as a resource as it is related to human and technological development is examined. Legal dimensions of natural resources.
- 585 ECONOMIC GEOLOGY.
 (3-0) 3 hours credit.
 The use of mineral resources as viewed from an economic dimension. Location of resources, transportation aspects, processing, and the role of changing technology as it relates to the value of these resources are analyzed.
- 591 BUSINESS DIMENSIONS OF ENVIRONMENTAL MANAGEMENT.
 (3-0) 3 hours credit.
 A course intended to give the student a survey introduction into the role of business tools in the areas of accounting, marketing, management, and finance as they relate to the efficient utilization of natural resources. The subject is approached from a public sector rather than from a business firm point of view.
- 610, 620, 630 SPECIAL PROBLEMS.
 1 to 3 hours credit.
 May be repeated but not more than 6 hours will apply to a Mater's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

- 633 MANPOWER TRAINING.
(3-0) 3 hours credit.
A course dealing with the various dimensions of training of a labor force to meet the changing needs of the economy and society. The causes of human obsolescence, availability of resources to combat this problem and evaluation of various alternative solutions are studied.
- 637 ECONOMICS OF HEALTH SYSTEMS.
(3-0) 3 hours credit.
The need for medical services, availability of resources, proposed public policy solutions along with demographic and technological impacts are studied.
- 664 ECOLOGICAL DIMENSIONS OF URBAN SYSTEMS.
(3-0) 3 hours credit.
The theory of urban growth is studied in relation to the spatial relationships of towns and cities. The role of ecological factors in city planning, and development. The impact of ecology as it affects the quality of city life is considered and contrasted to the economic dimensions of these decisions.
- 665 URBAN RESEARCH.
(3-0) 3 hours credit.
The development of specific analytical tools used in the analysis of urban activity and the application of these tools to analyze case histories. Model building using the systems approach is utilized.
- 666 SEMINAR IN URBAN HOUSING.
(3-0) 3 hours credit.
An analysis of housing problems, their causes and attempted solutions.
- 667 URBAN PLANNING.
(3-0) 3 hours credit.
The evolution of city planning, conceptual tools available to the planner and the roles of technology and aesthetics in social change and city planning.

- 668 COMPARATIVE URBAN DEVELOPMENT.
(3-0) 3 hours credit.
A comparative study of the interaction of culture, economics, and natural environment as they affect urban development over time. Areas covered include: pre-industrial cities in the Mediterranean, Medieval Europe, and pre-Hispanic America. The impact of industrialization on traditional cities and of European influence on non-Western cities will be considered.
- 671 SEMINAR IN NATURAL RESOURCE MANAGEMENT.
(3-0) 3 hours credit.
A selection of current topics of interest and importance in the area of natural resource management.
- 681A, B INTERNSHIP.
(0-9) 3 hours credit each. Prerequisite: Approval of the Dean.
An opportunity will be provided the student to work in an environmental management setting which will permit him to apply the knowledge learned in the formal institution part of the program.
- 691 MASTER'S THESIS.
(3-0) 3 hours credit.
May be repeated for credit but not more than 6 hours will apply to the Master's degree. Permission of the instructor is required. Enrollment in ENVN 691 is required each term the thesis is in progress.

COURSE DESCRIPTIONS

HIGHER EDUCATION

(HED)

- 561 THE COMMUNITY COLLEGE.
(3-0) 3 hours credit.
The historical and philosophical foundations for the community junior college movement in the United States will be analyzed and utilized as a basis for understanding contemporary trends and problems of community junior colleges.
- 571 RESOURCE ALLOCATIONS IN HIGHER EDUCATION.
(3-0) 3 hours credit.
Concepts and practices in financing, planning, program and institutional budgeting in higher education.
- 581 SEMINAR IN GOVERNANCE OF HIGHER EDUCATION.
(3-0) 3 hours credit.
Analysis of current practices and issues in the governance of higher education which affect students, faculty, administration, scope and role of colleges and universities.
- 591 THE AMERICAN COLLEGE STUDENT.
(3-0) 3 hours credit.
The college student's role in contemporary society; characteristics, basic values, peer group influence, campus culture, needs and pressures.
- 595 CONTEMPORARY THOUGHT IN HIGHER EDUCATION.
(3-0) 3 hours credit.
A study of current thought as it relates to the management of institutions of higher education.
- 610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

6.55 THE DEVELOPMENT OF HIGHER EDUCATION IN THE U.S.A.
(3-0) 3 hours credit.

A study of the transition from patterns of European institutions of higher learning to the development of uniquely American institutions. Relates the development of resources, human and physical, to the changing role of higher education in American society.

COURSE DESCRIPTIONS

SECONDARY EDUCATION

(SED)

- 591 PROBLEMS OF TEACHING IN SECONDARY EDUCATION.
(3-0) 5 hours credit.
Case studies and seminar approach to theory and practice of teaching in secondary schools for experienced teachers. An advanced intensive study of classroom organizational patterns, communication patterns, leadership roles, experimental programs, and the selection and use of instructional materials will be among the problems investigated.
- 610, 620, 630 SPECIAL PROBLEMS.
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

COLLEGE OF SCIENCES AND MATHEMATICS

The College of Sciences and Mathematics will, when fully operative, offer professional training at both the graduate and undergraduate levels. Degree programs will be available in the sciences, quantitative studies, and allied health professions. A broad-based core of courses contributing to the total education of the University's non-science majors will be provided. The College is dedicated to programs which provide training in the theoretical aspects of the disciplines, stressing the applicational aspects. Whenever possible, the multidisciplinary concept is utilized in instruction.

Pending completion of permanent facilities, graduate programs and courses in the sciences and mathematics will be limited to those which can be offered in the temporary facilities.

MASTER OF SCIENCE DEGREE IN MATHEMATICS AND SYSTEMS DESIGN

The graduate program in Mathematics and Systems Design is directed to those individuals who have backgrounds in both mathematics and computers and will enable graduates of the program at the Master's level to perform as applied mathematicians capable of utilizing sophisticated computer systems. While the graduate will be a mathematician, he will be able to serve in a computer application capacity. Unlike the typical Master's level mathematician who has a combination of theoretical and applied mathematics in his background, the graduate of this program will have proficiency in computers from the standpoint of systems organization and design, thus offering him the opportunity to utilize automata as a tool of mathematics and mathematics as a tool of automata.

Because of the heterogeneous backgrounds of students in this program, a dual track program is available. The first program is designed for those students whose backgrounds in either mathematics or computers represent less than the baccalaureate level. Under this plan, students will be able to take foundation courses at a sophisticated level to enrich their backgrounds so that graduate study is within their reach. Foundation courses will be in addition to those courses required for the MS degree in Mathematics and Systems Design.

The second plan of the program is for students whose background in mathematics is at the baccalaureate level and who are familiar with computer equipment and programming. These students will be able to embark immediately upon the MS degree program.

MASTER OF SCIENCE DEGREE IN MATHEMATICS AND SYSTEMS DESIGN

The graduate program in Mathematics and Systems Design is directed to those individuals who have backgrounds in both mathematics and computers and will enable graduates of the program at the Master's level to perform as applied mathematicians capable of utilizing sophisticated computer systems. While the graduate will be a mathematician, he will be able to serve in a computer application capacity. Unlike the typical Master's level mathematician who has a combination of theoretical and applied mathematics in his background, the graduate of this program will have proficiency in computers from the standpoint of systems organization and design, thus offering him the opportunity to utilize automata as a tool of mathematics and mathematics as a tool of automata.

Because of the heterogeneous backgrounds of students in this program, a dual track program is available. The first program is designed for those students whose backgrounds in either mathematics or computers represent less than the baccalaureate level. Under this plan, students will be able to take foundation courses at a sophisticated level to enrich their backgrounds so that graduate study is within their reach. Foundation courses will be in addition to those courses required for the MS degree in Mathematics and Systems Design.

The second plan of the program is for students whose background in mathematics is at the baccalaureate level and who are familiar with computer equipment and programming. These students will be able to embark immediately upon the MS degree program.

Option I (a total of 30 semester hours including a thesis is required):

- MATH 561. COMPUTER ORGANIZATION, EQUIPMENT AND LANGUAGE.
- MATH 562. PROGRAMMING TECHNIQUES AND FILE DESIGN AND MANIPULATION.
- MATH 567. NUMERICAL ANALYSIS.
- MATH 568. SIMULATION TECHNIQUES.
- MATH 570. THEORY OF FUNCTIONS OF A REAL VARIABLE.
- MATH 591. LINEAR ALGEBRA AND MATRIX THEORY.
- MATH 661. OPERATIONS RESEARCH
- MATH 691 (6 hours). MASTER'S THESIS.

Three (3) semester hours of electives in mathematics approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of approved course work is required):

- MATH 561. COMPUTER ORGANIZATION, EQUIPMENT AND LANGUAGE.
- MATH 562. PROGRAMMING TECHNIQUES AND FILE DESIGN AND MANIPULATION.
- MATH 567. NUMERICAL ANALYSIS.
- MATH 568. SIMULATION TECHNIQUES.
- MATH 570. THEORY OF FUNCTIONS OF A REAL VARIABLE.
- MATH 571. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE.
- MATH 575. ORDINARY DIFFERENTIAL EQUATIONS.
- MATH 590. MODERN ALGEBRA.
- MATH 591. LINEAR ALGEBRA AND MATRIX THEORY.
- MATH 631. ADVANCED PROBABILITY.
- MATH 661. OPERATIONS RESEARCH.

Three (3) semester hours of electives in mathematics approved by the Graduate Advisor and Dean.

COURSE DESCRIPTIONS

BIOLOGICAL SCIENCE

(BIOL)

- 531 FUNDAMENTALS OF LIFE SCIENCE.
(3-0) 3 hours credit.
The inter-relatedness of diverse populations is studied. Emphasis is on the similarities and differences in structure, function, and life cycles of living matter as it relates to energy and health requirements of ecosystems. Man initiated disruptions of energy requirements of ecosystems are examined.
- 533A MEDICAL LIFE SCIENCES I.
(3-0) 3 hours credit. Prerequisite: An undergraduate course in biological science.
A study of developmental human anatomy with the basic processes of fertilization, growth, determination, differentiation in human beings in the molecular, cellular, tissue, and organismic levels. The systems and gross concepts of human anatomy will be studied.
- 533B MEDICAL LIFE SCIENCES II.
(3-0) 3 hours credit. Prerequisite: Biology 533A.
An introduction to human physiology in which the functions of the human body are studied. Includes various systems such as respiratory, digestive, skeletal, circulatory, nervous, and hormonal.
- 537 RECENT DEVELOPMENTS IN LIFE SCIENCE.
(3-0) 3 hours credit.
Studies of the current developments in the Life Sciences and suggestions for their implementation. The course is intended for individuals teaching Life Science.

COURSE DESCRIPTIONS

EARTH SCIENCE

(ERTH)

552 FUNDAMENTAL EARTH SCIENCE STUDIES.

(3-0) 3 hours credit.

The course is designed to help the student learn terminology and energy relationships that are used in earth science. Emphasis is on those phenomena which direct impact on the habitat and survival of living organisms such as adiabatic changes, insulation, isostasy, thermal gradients and zenith angle. Students will also examine geological models used to explain the earth's history. The well-being of man and other living organisms as affected by geological principles and phenomena will be studied.

COURSE DESCRIPTIONS

MATHEMATICS AND SYSTEMS DESIGN

(MATH)

- 530A INTRODUCTION TO COMPUTING.
 (3-0) 3 hours credit. Prerequisite: Series of undergraduate courses in analytic geometry and calculus. An introduction to the properties of digital computers, implementation of mathematical algorithms on a computer, assembly languages; arrays and lists; data processing algorithms. May not be taken for credit by students who have completed MATH 561, or who have completed 6 hours of credit in programming.
- 530B INTRODUCTION TO THE THEORY OF PROGRAMMING.
 (3-0) 3 hours credit. Prerequisite: MATH 530A, or the equivalent.
 Design and construction of computer programs, use of specific programming languages to solve problems of a wide range of applications, especially mathematical applications. Students will be required to demonstrate proficiency in at least two programming languages. Not intended for students with substantial knowledge of programming.
- 531 ADVANCED CALCULUS.
 (3-0) 3 hours credit. Prerequisites: Graduate standing and series of undergraduate courses in analytic geometry and calculus.
 Calculus of real valued functions of one and several variables, real numbers and completeness, continuity, derivatives, Riemann integral, surface integrals, Jacobians, Laplace transforms, and other special functions.
- 533 INTRODUCTION TO ABSTRACT ALGEBRA AND ANALYSIS.
 (3-0) 3 hours credit. Prerequisite: Series of undergraduate courses in analytic geometry and calculus. An introduction to abstract mathematics including the real number system, sets, mappings, algebraic structures, mathematical induction, unique factorization, Gaussian integers, and an introduction to the theory of integration. May not be taken for credit by students who have completed MATH 590, or the equivalent.

- 554 INTRODUCTION TO LINEAR ALGEBRA AND MATRIX THEORY.
(3-0) 3 hours credit. Prerequisite: An undergraduate course in differential equations.
Matrices and linear transformations, vector spaces, and applications to the solution of differential equations. May not be taken for credit by students who have completed MATH 581, or the equivalent.
- 535 APPLICATIONS OF MATHEMATICS.
(3-0) 3 hours credit. Prerequisites: Undergraduate course in modern algebra and abstract analysis, or MATH 533 and MATH 534.
Applications of abstract algebras, geometry and analysis to the natural, social and physical science.
- 538 MATHEMATICAL STATISTICS.
(3-0) 3 hours credit. Prerequisites: Series of undergraduate courses in analytic geometry and calculus.
An introduction to the mathematical theory of probability and statistics. Includes the concept of probability and sampling, probability and sample spaces, principles of estimation, properties of estimators, sampling distributions, bivariate normal, random variables and distribution functions. May not be taken for credit by students who have completed MATH 631.
- 561 COMPUTER ORGANIZATION, EQUIPMENT AND LANGUAGE.
(3-0) 3 hours credit. Prerequisite: MATH 560, or the equivalent.
A study of hardware and the functional characteristics of each, including I/O devices, CPU and various storage media; a study of software and support systems including the assembly process, compilers, operating systems, data structures and application packages; a study of the applicational uses, the strengths and weaknesses of each language, including assembly, FORTRAN, APL, COBOL, RPG, etc.
- 562 PROGRAMMING TECHNIQUES AND FILE DESIGN AND MANIPULATION.
(3-0) 3 hours credit. Prerequisite: MATH 561, or the equivalent.
Includes the types of file access methods such as random, sequential, and indexed organization; control methods; the relationship of the data base to file maintenance; modular programming, data collection and preparation; program system documentation; and the flow of information from input to on-line real time information systems.

- 567 NUMERICAL ANALYSIS.
 (3-0) 3 hours credit. Prerequisites: Graduate standing and Math 531, or the equivalent.
 The analysis of methods for solving mathematical problems on digital computers including the solution of nonlinear equations, approximation of functions, numerical differentiation and integration. Analysis of convergence and estimation of error, functions of several variables, iterative methods, linear programming and testing, and automation of methods on a digital computer.
- 568 SIMULATION TECHNIQUES.
 (3-0) 3 hours credit. Prerequisite: MATH 567, or the equivalent.
 A study of the methods available to simulate realistic and theoretical situations and models from business, the physical and natural sciences, and mathematics. Each student will be required to develop an extensive simulation from his field of interest.
- 569 APPLIED MATHEMATICS.
 (3-0) 3 hours credit. Prerequisite: Graduate standing.
 Finite difference calculus, manipulation of sums and products, property of bilinear coefficients, Stirling numbers, harmonic numbers, Fibonacci numbers, uses of generating functions to solve complex recurrence relations, asymptotic expansions, analysis of computing algorithms. The emphasis is on obtaining closed-form solutions to problems when it is possible to do so.
- 570 THEORY OF FUNCTIONS OF A REAL VARIABLE.
 (3-0) 3 hours credit. Prerequisite: MATH 531, or the equivalent.
 Point set topology in metric spaces and general spaces. Functions of bounded variations, absolute continuity, Lebesgue measure, and the Lebesgue-Stieltjes integral. More advanced theories of measure and integration.
- 571 THEORY OF FUNCTIONS OF A COMPLEX VARIABLE.
 (3-0) 3 hours credit. Prerequisite: MATH 531, or the equivalent.
 Complex integration, Cauchy's theorem, calculus of residues, power series, infinite products, entire functions, Picard's theorem, Riemann mapping theorem.

- 575 ORDINARY DIFFERENTIAL EQUATIONS.
(3-0) 3 hours credit. Prerequisites: MATH 531 and MATH 534, or the equivalent.
Ordinary differential equations in the real and complex domains, existence and uniqueness theorems; linear systems, analysis of singular points, Sturm-Liouville theorem, asymptotic expansions.
- 576 PARTIAL DIFFERENTIAL EQUATIONS.
(3-0) 3 hours credit. Prerequisites: MATH 571, MATH 575, and MATH 591, or the equivalent.
The theory of initial value and boundary value problems for hyperbolic, parabolic, and elliptic partial differential equations, with emphasis on nonlinear equations. More general types of equations and systems of equations.
- 581 GENERAL TOPOLOGY.
(3-0) 3 hours credit. Prerequisite: MATH 531, or the equivalent.
This course will cover some of the basic properties of metric and topological spaces, compactness, connectedness and continuity. Special attention will be paid to the Euclidean spaces, and the fixed-point and degree of mapping theorems will be developed.
- 590 MODERN ALGEBRA.
(3-0) 3 hours credit. Prerequisite: MATH 533, or the equivalent.
Topics include: groups, rings and fields, Galois theory, ideal theory, introduction to algebraic geometry, representation of groups and algebras, multilinear algebra.
- 591 LINEAR ALGEBRA AND MATRIX THEORY.
(3-0) 3 hours credit. Prerequisite: MATH 534, or the equivalent.
A study of the algebraic properties of matrices and their geometric interpretations. Topics include linear dependence, bases and coordinate systems, linear transformations and matrices, similarity and eigenvalues, reduction of quadratic forms, invariant subspaces, Hermitian and unitary matrices, and multilinear algebra. Emphasis will be on the use of computers in solutions.

610, 620, 630 SPECIAL PROBLEMS.

1 to 3 hours credit.

May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

631 ADVANCED PROBABILITY.

(3-0) 3 hours credit. Prerequisite: MATH 535, or the equivalent.

Fundamental concepts, weak and strong laws of large numbers, convergence of distributions, the central limit theorem, infinitely divisible distributions and stable law.

632 STOCHASTIC PROCESSES.

(3-0) 3 hours credit. Prerequisites: MATH 591 and MATH 631.

Includes basic concepts, random walks, recurrent events, Markov chains, boundary theory, branching and queuing processes, Brownian motion, a study of statistical inference for these processes, and computer applications.

661 OPERATIONS RESEARCH.

(3-0) 3 hours credit. Prerequisites: An undergraduate course in economics, a course in linear algebra, linear programming, and mathematical probability.

An introduction to deterministic and stochastic models in operations research. Emphasis will be on nonlinear and dynamic programming problems and optimization for finding optimum values of design or operating variables affecting a given economic objective. Project management and administration will be included. Numerous applications to industry and business, including forecasts, investment strategies, risk analysis, return on investments, and other applications for management will be covered and the subject of required individual projects.

691 MASTER'S THESIS.

(3-0) 3 hours credit.

May be repeated for credit but not more than 6 hours will apply to the Master's degree. Permission of the instructor is required. Enrollment in MATH 691 is required each term the thesis is in progress.

COURSE DESCRIPTIONS

PHYSICAL SCIENCE

(PASC)

- 530A PHYSICAL SCIENCE STUDIES I.
(3-0) 3 hours credit.
A non-calculus approach to principles of physical science dealing with the energy requirements of chemical and physical changes. Methods of investigating and evaluating energy utilizations and measuring matter and physical phenomena will be studied. Students will read basic books and journal articles that relate energy changes to ecosystems in addition to studying basic principles of physical science.
- 530B PHYSICAL SCIENCE STUDIES II.
(3-0) 3 hours credit.
A continuation of investigating energy requirements in chemical and physical changes including studies of carbon containing molecules, polymerizations, hydrolysis and energy transport systems found in nature. The functioning of physical principles in biological systems is examined. Man's standard of living as it relates to the amount of energy available is studied.
- 535 RECENT DEVELOPMENTS IN PHYSICAL SCIENCE.
(3-0) 3 hours credit.
Studies of the current developments in the Physical Sciences and suggestions for their implementation. The course is intended for individuals teaching chemistry, earth science or physics.

APPENDIX

RESIDENCE REGULATIONS

A student entering The University of Texas at San Antonio for the first time, or a student re-entering the University after an absence of more than one semester, should carefully read the rules governing the determination of residence, as stated below, so that he may be prepared, in the event of his classification as a nonresident of Texas, to pay the required tuition fee. This fee must be paid at the time of registration.

Chapter 54, Subtitle A, Title 3 of the Texas Education Code sets forth the regulations governing nonresident students in institutions of senior collegiate rank.

I. Minors.

Statute: Section 54.052 (b) An individual, under twenty-one (21) years of age, who is living away from his family, and whose family resides in another state or has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student;

Section 54.052 (c) An individual twenty-one (21) years of age or under whose family has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student regardless of whether he has become the legal ward of residents of Texas or has been adopted by residents of Texas while he is attending an educational institution in Texas, or within a 12-month period before his attendance, or under circumstances indicating that the guardianship or adoption was for the purpose of obtaining status as a resident student;

Section 54.055 An individual 21 years of age or under whose parents were formerly residents of Texas is entitled to pay the resident tuition fee following the parents' change of legal residence to another state, as long as the individual remains continuously enrolled in a regular session in a state-supported institution of higher education.

A. Death or Divorce of Parents. The legal residence of a minor under 21 years of age is usually that of the father. Upon the death of the father, the legal residence of the minor is that of the mother. Upon divorce or legal separation of the parents, the residence of the minor is determined by the residence of the parent with whom the minor is making his home at the time of registration.

B. Custody by Court Order. If the custody of the minor has been granted by court order (e.g., divorce decree, child custody action, guardianship or adoption proceedings) to some person other than the parent, the residence of that

person shall control; provided, however, that such grant of custody was not ordered during or within a year prior to the minor's enrollment in an institution of higher education (defined as any public junior college, public senior college or university, medical or dental unit or other agency of higher education) and was granted under circumstances indicating that such guardianship was not for the purpose of obtaining status as a resident student.

If the minor is not making his home with either parent, and there is no court-appointed guardian, the residence of the parent with whom the minor last resided shall be presumed to control. If, however, the minor has made his home with, and has been dependent upon a grandparent for more than a year prior to enrollment in an institution of higher education, the residence of the natural guardian shall be regarded as his residence. The residence of a person other than a parent or a natural or legal guardian, who may furnish funds for payment of tuition, fees, or living expenses shall in no way affect the residence classification of a minor.

C. Abandoned Child. In the case of an abandoned child, the residence of a person who has stood *in loco parentis* for a period of time may determine the residence of such abandoned child. The fact of abandonment must be clearly established and must not have been for the purpose of affecting the residence of the minor, and the minor must have actually resided in the home of such person for two years immediately prior to registering in an institution of higher education in Texas and must have received substantially all of his support from such person. In the event that the *in loco parentis* relationship has not existed for the full two year period, a lesser period of time is acceptable in unusual hardship cases, such as death of both parents.

D. Orphan. An orphan who has lived for longer than a year in an established orphan's home in Texas operated by a fraternal, religious, or civic organization and has been graduated from the orphan's home shall be considered a resident of Texas provided he remains in Texas from the time of such graduation until he enters an institution of higher education.

E. Emancipated Child. Under certain circumstances, a minor may become emancipated or freed from parental control. If the minor has broken completely with his parents, is in fact residing apart from them, and has been entirely independent and wholly self-supporting, he may establish that he is "emancipated."

If emancipation is clearly proved, the residence classification of the minor is determined by the residence of the minor rather than the residence of the parents, and after 12 months in Texas under such circumstances, the minor may be classified as a resident, if he otherwise satisfies the statutory requirements applicable to those over 21 (e.g., see presumption arising from residence while a student). Proof of his emancipation is the responsibility of the minor.

F. Married Minors. A minor male who is married shall have the power and capacity of a single person of full age and is entitled to select his own place of legal residence. After 12 months' residence in Texas under such circumstances the minor may be classified as a resident if he otherwise satisfies the statutory requirements applicable to those over 21 years of age. The legal residence of a minor female who is married is controlled by the legal residence of her husband. The residence classification for tuition purposes of either a nonresident male or female who marries a Texas resident shall be governed by the provisions of the tuition statute and of these rules and regulations as hereinafter set out.

G. Minors Whose Parents Moved to Another State or Foreign Country. If the parents of a minor who is enrolled as a resident student move their legal residence to another state or foreign country on, or after August 15, 1971, the minor shall be classified as a nonresident at all subsequent registration periods. Under provisions of Section 54.055, the minor will be entitled to pay the resident tuition fee as long as he remains continuously enrolled in a regular session in a public institution of higher education. The minor student must re-enroll for the next available regular semester immediately following the parents' change of legal residence to another state.

If the parents of a minor move to another state or foreign country, or reside outside the state or in a foreign country at the time of enrolling in an institution of higher education, but claim legal residence in Texas, conclusive evidence must be presented that the father is still claiming legal residence in the State of Texas and that he has the present intent to return to the state. A certificate from the employer of the parents that the move outside the state was temporary and that there are definite plans to return the parents to Texas by a determinable future date may be considered in this connection.

If a minor whose parents have moved their legal residence to another state or foreign country resides in Texas for 12 consecutive months following his 21st birthday and by his actions clearly indicates that his intention is to establish permanent residence in the state, he may be classified as a resident student effective with the beginning of the term or semester following his 22nd birthday despite the fact that his entire period of residence in Texas has been as a student.

When the parents of a minor who have established their legal residence in another state or foreign country return and reestablish their legal residence in Texas the minor must be classified as a nonresident until the first registration after the parents have resided in the state for a 12-month period following their return.

II. Residence of Individuals Over Twenty-One.

Statute: Section 54.052 (d) An individual twenty-one (21) years of age or over who has come from outside Texas and who is gainfully employed in

Texas for a 12-month period immediately preceding registration in an educational institution shall be classified as a resident student as long as he continues to maintain a legal residence in Texas; and

Section 54.052 (e) An individual twenty-one (21) years of age or over who resides out of the state or who has come from outside Texas and who registers in an educational institution before having resided in Texas for a 12-month period shall be classified as a nonresident student.

Section 54.054 A nonresident student classification is presumed to be correct as long as the residence of the individual in the state is primarily for the purpose of attending an educational institution. After residing in Texas for at least twelve (12) months, a nonresident student may be reclassified as a resident student as provided in the rules and regulations adopted by the Coordinating Board, Texas College and University System. Any individual reclassified as a resident student is entitled to pay the tuition fee for a resident of Texas at any subsequent registration as long as he continues to maintain his legal residence in Texas.

Establishment of Residence. Any individual 21 years of age or over who moves into the state and who is gainfully employed within the state for a period of 12 months prior to enrolling in an educational institution (defined as any institution of higher education, public or private, above the high school level), is entitled to classification as a resident. If such 12 months' residence, however, can be shown not to have been for the purpose of establishing legal residence in the state but to have been for some other purpose, the individual is not entitled to be classified as a resident. Any student registering in an educational institution prior to having resided in the state for 12 months shall be classified as a nonresident for tuition purposes.

A person classified as a nonresident student upon his first enrollment in an institution of higher education is presumed to be a nonresident for the period during which he continues as a student. If such nonresident student withdraws from school and resides in the state while gainfully employed for a period of 12 months, upon re-entry into an institution of higher education he will be entitled to be reclassified as a resident for tuition purposes. Accumulations of summer and other vacation periods do not satisfy this requirement. A student is not entitled to reclassification after a residence in the state for 12 months merely on the basis of his or his wife's employment, registration to vote, registration of a motor vehicle and payment of personal property taxes thereon, or the securing of a Texas driver's license. The presumption of a "nonresident" is not a conclusive presumption, however, and other facts may be considered to determine if the presumption has been overcome. Material to this determination are business or personal facts or actions unequivocally indicative of a fixed intention to reside permanently in the state including, but

not limited to, the length of residence and full-time employment prior to re-
 entering in the institution, the fact of full-time employment and the
 nature of such employment (regular industrial, business or professional
 employment as distinguished from student-type employment) while a student,
 purchase of a homestead with substantial down-payment, and marriage to
 a resident of Texas. All of these facts are weighed in the light of the
 fact that a student's residence while in school is primarily for the
 purpose of education and not to establish residence, and that decisions
 of an individual as to residence are generally made after the completion
 of an education and not before.

III. Married Students.

*Statute: Section 54.056 A nonresident who marries and remains married
 to a resident of Texas, classified as such under this Act at the
 time of the marriage and at the time the nonresident registers, is
 entitled to pay the resident tuition fee regardless of the length
 of time he has lived in Texas, and any student who is a resident
 of Texas who marries a nonresident is entitled to pay the resident
 tuition fee as long as he does not adopt the legal residence of
 the spouse in another state.*

Nonresident Who Marries A Resident of Texas. The nonresident male or fe-
 male student who marries a resident of Texas is entitled to pay the resi-
 dent tuition at the registration period next following the date of marriage
 upon submission of evidence of such marriage and of the spouse's legal
 residence in Texas. The legal residence of a wife, regardless of her age,
 follows that of her husband. Therefore, a woman who is a resident of
 Texas and who marries a nonresident shall be classified as a nonresident
 for all enrollment periods subsequent to her marriage; provided, however,
 that she shall be permitted to pay the resident tuition so long as she
 does not affirmatively by her actions adopt the legal residence of her
 husband (for example, registering to vote in another state).

In the event a nonresident male or female student who marries a resident
 of Texas, and subsequently, is divorced, such nonresident student shall
 be classified as a nonresident for all enrollment periods subsequent to
 the date of such divorce.

IV. Military Personnel and Veterans.

*Statute: Section 54.058 (a) Military personnel are classified as provided
 by this section in the following manner:*

(b) An officer, enlisted man or woman, selectee or draftee of the

Army, Army Reserve, Army National Guard, Air National Guard, Texas State Guard, Air Force, Air Force Reserve, Navy, Navy Reserve, Marine Corps, Marine Corps Reserve, Coast Guard, or Coast Guard Reserve of the United States, who is assigned to duty in Texas is entitled to register himself, his spouse, and their children in a state institution of higher education by paying the tuition fee and other fees or charges required of Texas residents, without regard to the length of time he has been assigned to duty or resided within the state. However, out-of-state Army National Guard or Air National Guard members attending training with Texas Army or Air National Guard members under National Guard Bureau regulations may not be exempted from nonresident tuition by virtue of that training status nor may out-of-state Army, Air Force, Navy, Marine Corps, or Coast Guard Reserves training with units in Texas under similar regulations be exempted from nonresident tuition by virtue of such training status. It is the intent of the legislature that only those members of the Army or Air National Guard, Texas State Guard, or other reserve forces mentioned above be exempted from the nonresident tuition fee and other fees and charges only when they become members of Texas units of the military organizations mentioned above.

(c) As long as they reside continuously in Texas, the spouse and children of a member of the Armed Forces of the United States who has been assigned to duty elsewhere immediately following assignment to duty in Texas are entitled to pay the tuition fees and other fees or charges provided for Texas residents.

(d) If nonresident military personnel are attending an institution of higher education under a contract between the institution and any branch of the Armed Forces of the United States, in which the tuition of the member of the military is paid in full by the United States Government, the student shall pay the nonresident tuition fee;

(e) A Texas institution of higher education may charge to the United States Government the nonresident tuition fee for a veteran enrolled under the provisions of a Federal law or regulation authorizing educational or training benefits for veterans;

(f) The spouse and children of a member of the Armed Forces of the United States who dies or is killed are entitled to pay the resident tuition fee, if the wife and children become residents of Texas within 60 days of the date of death; and

(g) If a member of the Armed Forces of the United States is stationed outside Texas and his spouse and children establish residence in Texas by residing in Texas and by filing with the Texas institution of higher education at which they plan to register a letter of intent to establish residence in Texas, the institution of higher education shall permit the spouse and children to pay the tuition, fees, and other charges provided for Texas residents without regard to length of time that they have resided within the State.

A. Certification of Assignment to Duty in Texas. Subsection (b) provides that military personnel assigned to duty within the State of Texas, their husband or wife as the case may be and their children, shall be entitled to pay the same tuition as a resident of Texas regardless of the length of their physical presence in the state. To be entitled to pay the resident tuition fees, such military personnel shall submit at the time of each registration a statement from his commanding officer or personnel officer certifying that he is then assigned to duty in Texas and that same will be in effect at the time of such registration in an institution of higher education. This subsection also provides that a nonresident member of an out-of-state National Guard unit who is temporarily training with a Texas National Guard unit will not be entitled to pay the resident tuition.

B. Spouse and Children of Member of Armed Services. Subsection (c) provides that the spouse and children of a member of the armed forces assigned to duty outside the State of Texas immediately after assignment in Texas may be entitled to pay the resident tuition as long as they reside continuously in Texas.

Subsection (g) provides that the spouse and children of a member of the armed forces who is assigned to duty outside the State of Texas and sends his family to the State of Texas may be entitled to pay the resident tuition if they file with the institution of higher education at which the student intends to register a letter of intent, an affidavit or other evidence satisfactory to the institution stating that they intend to become permanent residents of Texas.

Subsection (f) provides that a member of the immediate family (which shall include spouse or children) of a member of the armed forces who dies or is killed in action while in military service may qualify to pay the resident tuition if they become residents of Texas within 60 days of the date of death. To qualify under this provision, the student shall submit to the institution of higher education satisfactory evidence establishing the date of death and residence in Texas.

The military personnel spouse and children enumerated in (b), (c), (f), and (g) are classified as nonresidents but shall be entitled to pay the resident tuition regardless of their length of residence in Texas if they comply with the provisions of the statute and these rules and regulations.

C. Nonresident Military Personnel Attending College Under Contract. Subsection (d) provides that nonresident military personnel attending an institution of higher education under a contract with any branch of the armed forces where the tuition is paid in full under the provisions of such contract shall be charged nonresident tuition even though such military personnel may be assigned to duty pursuant to military orders at an institution of higher education.

D. Nonresidents Attending College Under Federal Benefits Programs for Veterans.
 Subsection (c) provides that the institution of higher education may charge the nonresident tuition fee for a nonresident veteran to the United States Government under the provisions of any federal law or regulation authorizing educational or training benefits for veterans.

E. Legal Residence of Person in Military Service. A person in military service is presumed to maintain during his entire period of active service the same legal residence which was in effect at the time he entered military service. A person stationed in a state on military service is presumed not to establish a legal residence in that state because his presence is not voluntary but under military orders. It is possible for a member of the military service to abandon his domicile of original entry into the service and to select another, but to show establishment of a new domicile during the term of active service, there must be clear and unequivocal proof of such intent. An extended period of service alone is not sufficient. The purchase of residential property is not conclusive evidence unless coupled with other facts indicating an intent to put down roots in the community and to reside there after termination of military service. Evidence which will be considered in determining this requisite intent includes, but is not limited to a substantial investment in a residence and the claiming of a homestead exemption thereon, registration to vote, and voting in local elections, registration of an automobile in Texas and payment of personal property taxes thereon, obtaining a Texas driver's license, maintaining checking accounts, savings accounts, and safety deposit boxes in Texas banks, existence of wills or other legal documents indicating residence in Texas, change of home-of-record and designation of Texas as the place of legal residence for income tax purposes on military personnel records, business transactions or activities not normally engaged in by military personnel, membership in professional or other state organizations, and marriage to a resident of Texas. Purchase of property during terminal years of military service preceding retirement generally is given greater weight than a similar purchase made prior to such terminal period.

F. Residence Classification of Veterans Upon Separation from Military Service.
 A person who enrolls in an institution of higher education following his separation from military service must be classified as a nonresident student unless, (1) he was a legal resident of Texas at the time he entered military service and has not relinquished that residence, (2) he can prove that during his military service he has, in fact, established a bona fide, legal residence in Texas at a time at least 12 months prior to his registration, or (3) he has resided in Texas other than as a student for 12 months prior to his registration and subsequent to his discharge from service.

V. Employees of Institutions of Higher Education other than Students.

Statute: Section 54.059 A teacher, professor, or other employees of a Texas institution of higher education is entitled to register himself, his

spouse, and their children in a state institution of higher education by paying the tuition fee and other fees or charges required for Texas residents without regard to the length of time he has resided in Texas. A teacher, professor, or other employee of a Texas institution of higher education is any person employed at least one-half time on a regular monthly salary basis by a state institution of higher education.

A person employed at least half-time on a regular monthly salary basis (not an hourly employee) by any public institution of higher education, with an effective date of employment on or before the 12th class day of a regular semester or the 4th class day of a summer term, may pay the same tuition as a resident of Texas for himself, his husband or wife as the case may be and their children, regardless of the length of residence in the state. To be entitled to pay the resident tuition fees such employee must submit prior to the time of each registration a statement from the Director of Personnel or a designated representative of the institution of higher education for which he is employed certifying that such employment will be in effect at the time of registration.

VI. Student Employees.

Statute: Section 54.051 (c) A teaching assistant, research assistant, or other student employee of any institution covered by this section is entitled to register himself, his spouse, and their children in a state institution of higher education by paying the tuition fees and other fees or charges required for Texas residents, without regard to the length of time he had resided in Texas; provided that said student employee is employed at least one-half time in a position which relates to his degree program under rules and regulations established by the employer institution. This exemption shall continue for students employed two consecutive semesters through the summer session following such employment if the institution is unable to provide employment and, as determined under standards established by the institution, if the employee has satisfactorily completed his employment.

A student employed at least half-time by any public institution of higher education in a position which relates to his degree program, with an effective date of employment on or before the 12th class day of a regular semester, or the 4th class day of a summer term, may pay the same tuition as a resident of Texas for himself, his husband or wife as the case may be, and their children regardless of the length of residence in the state. The institution which employs the student shall determine whether or not the student's job relates to his degree program. If a student is employed by an institution of higher education for consecutive Fall and Spring semesters and he was further eligible to pay the tuition charged to Texas residents during those Fall and Spring semesters because of the provisions of this subsection, then the student may continue to pay the resident tuition rate during the

summer session following the Spring employment if the institution is unable to provide employment and if the student has satisfactorily completed his employment.

VI. Competitive Scholarships.

Statute: Section 54.051 (p) A nonresident student holding a competitive scholarship of at least \$200 for the academic year or summer for which he is enrolled is entitled to pay the fees and charges required of Texas residents without regard to the length of time he has resided in Texas, provided that he must compete with other students, including Texas residents, for the scholarship and that the scholarship must be awarded by a scholarship committee officially recognized by the administration of the institution of higher education.

An official scholarship committee or committees of a public institution of higher education may award competitive scholarships in amounts of \$200 or more for the academic year, the summer session or both. If a nonresident student obtains one of these competitive scholarships, he may pay the same tuition as a resident of Texas during the registration period in which the scholarship is in effect. The student must present a statement from the official scholarship committee certifying that such scholarship will be in effect at the time of registration.

VIII. Citizens of Any Country Other Than The United States of America.

Statute: Section 54.057 An alien who is living in this country under a visa permitting permanent residence or who has filed with the proper Federal immigration authorities a declaration of intention to become a citizen has the same privilege of qualifying for resident status for fee purposes under this Act as has a citizen of the United States. A resident alien residing in a junior college district located immediately adjacent to Texas boundary lines shall be charged the resident tuition by that junior college.

Citizens of any country other than the United States of America who are in this country on a student visa or a visa other than one entitling them to immigrant status and who enroll in an institution of higher education covered by Section 54.051 of the Texas Education Code shall be classified as "...students who are citizens of any country other than the United States of America..." for purposes of Section 1 (a) (7) of Article 2654c, V.T.C.S. Such a student who is in this country on an immigrant visa can be classified as a resident student if he has resided in the state for a period of 12 months under circumstances indicating his intention to reside permanently in Texas and not merely to complete his education. To this extent a citizen of any country other than the United States of America residing in Texas on an immigrant visa shall be in no different position than the citizen of the United States

who has been a resident of another state. A citizen of any country other than the United States of America residing in the United States of America in a state other than Texas on an immigrant visa and has established his intent to reside permanently in such other state shall be classified as a nonresident.

IX. Reciprocity Clause Applicable to Junior Colleges.

Statute: Section 54.060. The nonresident tuition fee prescribed in this Act does not apply to a nonresident student who is a resident of a state situated adjacent to Texas and who registers in any Texas public junior college situated immediately adjacent to the state in which the nonresident student resides. The nonresident student described in this Subsection shall pay an amount equivalent to the amount charged a Texas student registered at a similar school in the state in which the nonresident student resides.

X. Student Responsibilities.

A. Student Responsibility to Register Under Proper Classification. The responsibility of registering under the proper residence classification is that of the student, and if there is any question of his right to classification as a resident of Texas, it is his obligation, prior to or at the time of his registration, to raise the question with the administrative officials of the institution in which he is registering and have such officially determined.

B. Notification Upon Becoming a Nonresident. Every student who is classified as a resident student but who becomes a nonresident at any time by virtue of a change of legal residence by his own action or by the person controlling his domicile is required to notify the proper administrative officials of his institution at once.

XI. Official Change of Residence Status.

A. Application for Reclassification. Every student classified as a nonresident student shall be considered to retain that status until such time as he shall have made written application for reclassification in the form prescribed by the institution and shall have been officially reclassified in writing as a resident of Texas by the proper administrative officers of the institution.

B. Reclassification as a Nonresident. Every person who has been classified as a resident of Texas shall be reclassified as a nonresident student whenever he shall report, or there is found to exist, circumstances indicating a change in legal residence to another state. If any student who has been classified as a resident of Texas shall be found to have been erroneously

so classified, he shall be reclassified as a nonresident and shall be required to pay the difference between the resident and nonresident fees for such semesters in which he was so erroneously classified. In addition, he shall be required to pay back all monies borrowed from the Texas Opportunity Plan Fund.

C. Reclassification as a Resident. If any student has been erroneously classified as a nonresident student and subsequently proves to the satisfaction of the appropriate officials of an institution of higher education that he should have been classified as a resident student, he shall be reclassified as a resident of Texas and shall be entitled to a refund of the difference between the resident and nonresident fees for the semester in which he was so erroneously classified.

XII. Penalties.

Statute: Section 54.053 The governing board of each institution required by this Act to charge a nonresident tuition or registration fee is subject to the rules, regulations, and interpretations issued by the Coordinating Board, Texas College and University System, for the administration of the nonresident tuition provisions of this Act. The rules, regulations, and interpretations promulgated by the Coordinating Board shall be furnished to the presidents or administrative heads of all Texas public senior and junior colleges and universities.

Section 54.061 The governing board of an institution of higher education may assess and collect from each nonresident student who fails to comply with the rules and regulations of the boards concerning nonresident fees a penalty not to exceed \$10 a semester.

Student Compliance with Institutional Rules and Regulations. Each institution has been authorized by statute to assess and collect from each nonresident student failing to comply with the provisions of the tuition statute and with these interpretations concerning nonresident fees a penalty not to exceed \$10.00 a semester. In addition, if a student has obtained residence classification by virtue of deliberate concealment of facts, or misrepresentation of fact, he may be subject to appropriate disciplinary action, in accordance with the rules and regulations that may be adopted by the governing boards of the respective institutions of higher education.

UNIVERSITY REGULATIONS

Effect of absence from the University. Every student returning to the University after an absence of more than one semester is required to file a residence questionnaire on a form furnished by the Registrar.

INDEX

DIRECTORY FOR CORRESPONDENCE

Requests for information should be directed to the offices shown below.

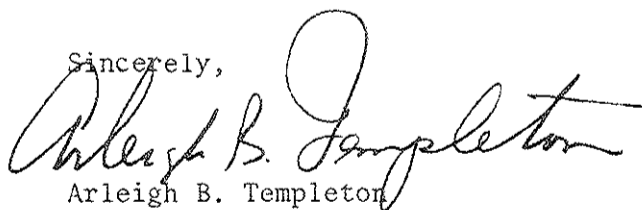
The University's address is: The University of Texas at San Antonio,
4242 Piedras Drive East, Suite 250, San Antonio, Texas 78228. The
telephone number is (512) 732-2141.

Admission

(Undergraduate and graduate).....Director of Admissions
Financial Aid, Loans or Scholarships.....Office of Student Financial Aid
Financial Matters.....Office of Fiscal Services
General Information.....Director of Admissions
International Students.....Director of Admissions
Registration.....Registrar
Residency.....Registrar
Student Employment.....Office of Student Financial Aid
Student Services.....Dean of Students
Transcripts.....Registrar
Veterans Affairs.....Registrar

(To be followed by map showing temporary location of UTSA.)

Sincerely,


Arleigh B. Templeton
President

THE UNIVERSITY OF TEXAS
MEDICAL SCHOOL AT SAN ANTONIO

September 20, 1972

Dr. Charles A. LeMaistre
Chancellor
The University of Texas System
601 Colorado Street
Austin, Texas 78701

Dear Dr. LeMaistre:

The following docket for The University of Texas Medical School at San Antonio is submitted for your approval and presentation to the Board of Regents at its next meeting in Austin on October 20, 1972:

GRANTS (NON-GOVERNMENTAL): Approval is requested for the following:

Aquatic Sciences Inc.

1. Research Grant
Development and Evaluation of a Research Design Model Suitable for Testing Chemical Pollution Effects
Dr. Richard G. Domey
\$814.00

Clayton Foundation for Research

2. Research Grant
Clinical Studies of Amine Drug Metabolism
Dr. Elliot Weser
September 1, 1972 - August 31, 1973
\$15,000.00

Upjohn Company

3. Research Grant
Study on Pulmonary Contusion
Dr. J. Kent Trinkle
September 1, 1972 - August 31, 1973
\$2,500.00

The Robert Wood Johnson Foundation

4. Robert Wood Johnson Foundation Student Aid Program
Mr. Billy D. Vandeventer
4 Year Period
\$106,164.08

Morrison Trust

5. Research Grant R-A-31(2)
Continuous Studies of Immunologic Status in Lethargic Mutant Mice
Dr. H. C. Dung
October 1, 1972 - September 30, 1973
\$14,069.00
6. Research Grant R-A-32(2)
Essential Nutrients in the Isolated Perfused Kidney
Dr. Joseph C. Dougherty
October 1, 1972 - September 30, 1973
\$20,810.00

7. Research Grant R-A-33
Nutrition, Cell Proliferation and Cancer Cachexia
Dr. Ivan L. Cameron
October 1, 1972 - September 30, 1973
\$16,123.80
8. Research Grant R-A-34
Effects of Chronic Potassium Loading on the Renal Regulation of Acid-Base Homeostasis
Dr. Howard B. Garfinkel
October 1, 1972 - September 30, 1973
\$18,024.00
9. Research Grant R-A-36
Effect of Barbiturates on the Content and Turnover of Serotonin and Norepinephrine
Dr. W. W. Morgan
October 1, 1972 - September 30, 1973
\$9,895.00

CONTRACTS AND AGREEMENTS (OTHER): Approval is requested for the following:

Bexar County Hospital District

1. Bexar County Hospital District Agreement
Employee Health Service
September 1, 1972 - June 30, 1973
\$15,600.00

Bexar County Board of Trustees for Mental Health Mental Retardation Services

2. Reimbursement for Professional Services to the Center's Alcoholic Treatment Program
September 1, 1972 - August 31, 1973
\$42,829.00

The University of Texas Southwestern Medical School at Dallas

3. Ratification of Purchase Order, No. 16736, in the amount of \$8,553.00 covering services proposed under RFP-NIH-NIAID-72-54 and authorized under NIH-NIAID-72-2531 contract titled "Evaluation of Histocompatibility Matching in Renal Transplantation" for the period June 29, 1972 through December 28, 1973.

Trinity University

4. Ratification of a rental contract for the use of Laurie Auditorium for commencement exercises by The University of Texas Medical School at San Antonio on May 26, 1973. The rental fee is \$200.00 and has been negotiated with Trinity University and approved by San Antonio Medical School administration in consultation with System Offices.

Texas State Commission for the Blind

5. Interagency Contract (72-73)-045
Reimbursement for Professional Services
September 1, 1972 - August 31, 1973
\$125,000.00

The University of Texas Lutcher Center at San Antonio

6. Interagency Contract (72-73)-605
Reimbursement of Services Rendered and Supplies Furnished
September 1, 1972 - August 31, 1973
\$3,000.00

The University of Texas at San Antonio

7. Interagency Contract (72-73)-577
Reimbursement of Services Rendered and Supplies Furnished
September 1, 1972 - August 31, 1973
\$10,000.00

The University of Texas Nursing School - System Wide

8. Interagency Contract (72-73)-575
Reimbursement of Services Rendered and Supplies Furnished
September 1, 1972 - August 31, 1973
\$35,000.00
9. Interagency Contract (72-73)-576
Reimbursement of Portion of the Cost of Utilities and Maintenance
for the Space Provided Them
September 1, 1972 - August 31, 1973
\$36,000.00

The University of Texas Dental School at San Antonio

10. Interagency Contract (72-73)-574
Reimbursement of Services Rendered and Supplies Furnished
September 1, 1972 - August 31, 1973
\$50,000.00
11. Interagency Contract (72-73)-584
Reimbursement for Instructional Services
September 1, 1972 - August 31, 1973
\$38,500.00

Austin State Hospital of Mental Health and Mental Retardation

12. Interagency Contract (72-73)-715
Reimbursement for Professional Services
September 1, 1972 - August 31, 1973
\$23,145.50

TRAVEL FOR FACULTY AND STAFF: The following travel is reported in accordance with Section 13.33 of Chapter III, Part Two of the Regents Rules and Regulations of the Board of Regents for government of The University of Texas System:

1. Dr. Russell L. Adams, Assistant Professor of Psychiatry, Division of Psychology, August 1, 1972 to August 31, 1972 to Washington, D. C. to be in training with Dr. Ralph Reitan regarding psychological testing in order to gain information and teaching skills to benefit the psychology trainees.
2. Mr. Antonio P. Hernandez, University Police, September 4, 1972 to November 17, 1972 to Austin, Texas to attend the 11th Basic Training School for University Police.

The University of Texas Medical
 School at San Antonio
 Federal Contracts and Grants
 October 20, 1972 Meeting

CONTRACTS AND GRANTS (FEDERAL): Approval is requested for the following:

Department of Health, Education, and Welfare

National Cancer Institute

1. Research Grant 1 R01 CA13427-01
Hormonal Mechanisms in Human Endometrial Carcinoma

Dr. Joseph E. Martin

Total Award: \$23,406.00

New Money: \$23,406.00

August 1, 1972 - July 31, 1973

Activities, goals, and purposes of grant:

The purpose of the study is to examine mechanisms of hormone action at the cellular level. Estrogen induction of an enzyme (ornithine decarboxylase) and a specific protein will be measured, utilizing the rabbit oviduct as an experimental model. In addition, the effects of some estrogen antagonists on the induction of these proteins will be examined. Research of this type may lead to further understanding of the biochemical mechanisms of hormone interaction, and treatment of certain clinical problems, such as carcinoma of the genital tract.

Other information:

This grant helps to strengthen our basic science laboratory unit in the Department of Obstetrics and Gynecology which will serve as a basis for a new teaching program for medical students and house staff in reproductive biology in which the basic sciences play a fundamental role.

Expenditure estimates by county:

Bexar County, Texas: \$23,406.00

2. Research Grant 5 R01 CA11378-04
Mechanism of Harmonal Control of Mammary Carcinoma

Dr. William L. McGuire

Total Award: \$30,114.00

New Money: \$25,397.00

July 1, 1972 - June 30, 1973

Activities, goals, and purposes of grant:

The purpose of this investigation is to understand how hormones influence the growth of breast cancer.

Other information:

This is the fourth year of this award.

Expenditure estimates by county:

Bexar County, Texas: \$30,114.00

National Institute of General Medical Sciences

3. Research Grant 5 R01 GM17534-04
Mechanism of Action of Succinyl Coenzyme A Synthetase

Dr. Jonathan S. Nishimura

Total Award: \$31,155.00

New Money: \$23,263.00

September 1, 1972 - August 31, 1973

Activities, goals, and purposes of grant:

The objective of this investigation is to elucidate the mechanism of action of the enzyme succinyl coenzyme A synthetase and to relate this information to what is known of the structure of the enzyme.

Other information:

This project is part of a continuing investigation of the relationship of coenzyme A to the structure and biological activity of enzymes with which it interacts.

Expenditure estimates by county:

Bexar County, Texas: \$31,155.00

The University of Texas Medical
 School at San Antonio
 Federal Contracts and Grants
 October 20, 1972 Meeting

National Institute of Child Health and Human Development

4. Development Award - Research Career Program - Grant 7 K04 HD42398-04
Pineal-Endocrine Relationships

Dr. Russel J. Reiter

Total Award: \$25,000.00

New Money: \$25,000.00

September 1, 1972 - August 31, 1973

Activities, goals, and purposes of grant:

The purpose of the proposed work is to investigate the role of environmental lighting and the pineal gland in controlling reproductive physiology. Specifically, the studies will deal with the inhibition of ovulation by pineal substances and mechanisms of action of pineal compounds on the central nervous system. Studies relating to the action of the pineal gland on the electrical and epileptic activity of the brain are also being pursued. This award provides primary salary support to the awardee.

Other information:

The long-term aim of the current project is to establish the function of the pineal gland in the human and, in particular, to hopefully devise a use for pineal compounds as a means of birth control. Secondly, it is also possible that the malfunction of the pineal in humans may be lined to various types of neuroses and abnormal sleep patterns. Hopefully, the current project will also shed light on these problems. This award supplements the award listed below (5 R01 HD06523-02).

Expenditure estimates by county:

Bexar County, Texas: \$25,000.00

5. Research Grant 5 R01 HD06523-02
Pineal-Endocrine Relationships in Rodents

Dr. Russel J. Reiter

Total Award: \$24,298.00

New Money: \$24,298.00

September 1, 1972 - August 31, 1973

Activities, goals, and purposes of grant:

The purpose of the proposed work is to investigate the role of environmental lighting and the pineal gland in controlling reproductive physiology. Specifically, the studies will deal with the inhibition of ovulation by pineal substances and mechanisms of action of pineal compounds on the central nervous system. Studies relating to the action of the pineal gland on the electrical and epileptic activity of the brain are also being pursued.

Other information:

The long-term aim of the current project is to establish the function of the pineal gland in the human and, in particular, to hopefully devise a use for pineal compounds as a means of birth control. Secondly, it is also possible that the malfunction of the pineal in humans may be lined to various types of neuroses and abnormal sleep patterns. Hopefully, the current project will also shed light on these problems. This award supplements the award listed above (7 K04 HD42398-04).

Expenditure estimates by county:

Bexar County, Texas \$12,149.00

Harris County, Texas 6,074.50

Dallas County, Texas 6,074.50

The University of Texas Medical
 School at San Antonio
 Federal Contracts and Grants
 October 20, 1972 Meeting

National Heart and Lung Institute

6. Research Grant 5 R01 HL12387-05
Transmembrane Fluxes in Vascular Smooth Muscle
 Dr. Arthur H. Briggs
 Total Award: \$32,322.00
 New Money: \$32,322.00
 September 1, 1972 - August 31, 1973
Activities, goals, and purposes of grant:

The proposed work for the current year includes (1) investigation of the effects of a variety of vasoactive drugs on calcium transport in vascular smooth muscle isolated from normotensive and hypertensive rats. For these experiments spontaneously hypertensive rats will be used. The effect of vasoactive substances, norepinephrine, and potassium on calcium transport will be investigated during the prehypertensive stage, during development of hypertension, and in the later stages of hypertension. (2) We will study the effects of electrical stimulation of vasoactive drugs on calcium release and binding in vascular smooth muscle, sarcoplasmic reticulum isolated from normotensive and hypertensive rat aortas. (3) A study of the cardiovascular system of the hypertensive rat will be undertaken. There will be two primary objectives for these studies. The first will be the investigation of the role of relaxing systems in the development and maintenance of the hypertensive state. The second objective will be to study the effect of beta receptor stimulation in both the heart and vascular smooth muscle of prehypertensive and hypertensive rats.

Other information:

The current award is a continuation of work which has been in progress for four (4) years.

Expenditure estimates by county:

Bexar County, Texas: \$32,322.00

7. Research Grant 5 R01 HL14305-02
Viruses in Chronic Cardiovascular Disease
 Dr. Kendall O. Smith
 Total Award: \$33,601.00
 New Money: \$20,889.00
 September 1, 1972 - August 31, 1973
Activities, goals, and purposes of grant:

Atherosclerosis begins in childhood with intimal fatty deposits in the major arteries and progresses to become one of the leading causes of death in the western world. Although the role of lipids has received most of the attention in the study of cardiovascular disease, it is still not clear by what mechanisms lipid deposits are initiated. We propose to investigate the possibility that viral infections in man which produce viremia can infect and damage the arteries sufficiently to initiate lipid deposits and participate in a sequence of events which ultimately produces severe blood vessel damage.

Other information:

This is the second year of a continuing activity.

Expenditure estimates by county:

Bexar County, Texas: \$33,601.00

The University of Texas Medical
 School at San Antonio
 Federal Contracts and Grants
 October 20, 1972 Meeting

National Institute of Mental Health

8. Research Grant 5 R01 MH20028-02
Epidemiology of Acceptance of Mental Health Services

Dr. Gustavo M. Quesada

Total Award: \$30,061.00

New Money: \$30,061.00

September 1, 1972 - August 31, 1973

Activities, goals, and purposes of grant:

The Field Mental Health Program provides an excellent field experience for testing relationships between knowledge and leadership, and most particularly, mental health knowledge and opinion leadership in a predominantly Mexican-American population. Thus the proposed objective is a pilot evaluation of the acceptance (diffusion) of mental health concepts and services. More specifically, it is expected that an increase of mental health knowledge among indigenous paramedical professionals in a community will lead: (1) To increased knowledge (awareness) within the population, (2) To increased opinion leadership of the trained paramedical professionals, and (3) To increased utilization of mental health services.

Other information:

Since this is a continuation application, the goals of the current award will be the same as were set up in the original application.

Expenditure estimates by county:

Bexar County, Texas: \$30,061.00

Office of Education

9. National Defense Student Loan Program 848911

Dr. F. C. Pannill*

Total Award: \$3,060.00

New Money: \$3,060.00

July 1, 1972 - June 30, 1973

Activities, goals, and purposes of grant:

This supplemental grant award is made to provide loan funds for eligible graduate students in the master and doctoral degree programs of the medical school. These funds are in addition to a previously funded program.

Other information:

This is a continuation of an on-going student loan program.

Expenditure estimates by county:

Bexar County, Texas: \$3,060.00

Social and Rehabilitation Service

10. Training Grant 44-P-30065/6-05

Teaching Grant and Traineeships in Rehabilitation Medicine

Dr. Arthur E. Grant

Total Award: \$48,010.00

New Money: \$48,010.00

July 1, 1972 - June 30, 1973

Activities, goals, and purposes of grant:

The purpose of this training grant is to upgrade the teaching of rehabilitation medicine to undergraduate medical students within this institution, and to provide partial support for our residency training program.

Other information:

This is a continuation of the training and teaching programs that are on-going.

Expenditure estimates by county:

Bexar County, Texas: \$48,010.00

* Granting agency has been notified that Dr. T. G. Blocker, Jr. is Interim President replacing Dr. F. C. Pannill.

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET:Medicine

1. Change the effective appointment date of Dr. Stephen F. Hoffman (non-tenure) as Assistant Professor at an annual salary rate of \$20,000.00 from August 1, 1972 to July 20, 1972. Funds needed for this change in appointment date to come from Unallocated Faculty Salaries. (RBC-252)
2. Appoint Dr. Charles R. Baker (non-tenure) as Associate Professor at an annual salary rate of \$25,400.00 effective August 1, 1972. Funds needed for this appointment to come from DHEW Grant Comprehensive Medical Care. (RBC-255)

Microbiology

3. Appoint Dr. Robert H. Persellin as Associate Professor (without salary) effective July 1, 1972. Dr. Persellin also serves as Associate Professor (T) in the Department of Medicine at an annual salary rate of \$25,000.00. (RBC-256)
4. Appoint Dr. John T. Harrington as Assistant Professor (without salary) effective July 1, 1972. Dr. Harrington also serves as Assistant Professor (non-tenure) in the Department of Medicine at an annual salary rate of \$20,000.00. (RBC-257)

Pathology

5. Appoint Dr. Joella C. Pyeatte (tenure) as Associate Professor at an annual salary rate of \$30,000.00 effective July 17, 1972. Funds needed for this appointment to come from Unallocated Faculty Salaries. (RBC-253)
6. Appoint Dr. Charles J. Farinacci (non-tenure) as Professor at an annual salary rate of \$30,000.00 effective August 15, 1972. Funds needed for this appointment to come from Unallocated Faculty Salaries. (RBC-259)
7. Accept the resignation of Dr. James E. Leveson (non-tenure), Assistant Professor at an annual salary rate of \$19,000.00 effective at the close of business August 31, 1972. (RBC-262)
8. Accept the resignation of Dr. Alain J. Marengo-Rowe (tenure), Associate Professor at an annual salary rate of \$24,500.00 effective at the close of business August 31, 1972. (RBC-261)
9. Accept the resignation of Dr. Abraham M. Gottlieb (non-tenure), Instructor at an annual salary rate of \$15,500.00 effective at the close of business August 31, 1972. (RBC-263)
10. Accept the resignation of Dr. David P. Nicholson (non-tenure), Instructor at an annual salary rate of \$21,000.00 effective at the close of business August 7, 1972. Transfer unused Teaching Salaries in the amount of \$1,354.85 to Unallocated Faculty Salaries. (RBC-266)
11. Accept the resignation of Mr. Gary R. Doyle (non-tenure), Instructor at an annual salary rate of \$11,500.00 effective at the close of business August 31, 1972. (RBC-267)
12. Accept the resignation of Dr. Jack E. Jackson (tenure), Associate Professor at an annual salary rate of \$24,000.00 effective at the close of business August 31, 1972. (RBC-268)

13. Accept the resignation of Dr. Warner B. Massey (non-tenure), Instructor at an annual salary rate of \$21,000 effective at the close of business August 7, 1972. Transfer unused Teaching Salaries in the amount of \$1,354.85 to Unallocated Faculty Salaries. (RBC-269)

14. Appoint Dr. George A. Bannayan (initial request for tenure) Associate Professor at an annual salary rate of \$30,000 effective August 1, 1972. Funds needed for this appointment to come from Unallocated Faculty Salaries. (RBC-271)

15. Appoint Dr. Jack E. Wallace (non-tenure) Assistant Professor at an annual salary rate of \$25,000 effective August 14, 1972. Funds needed for this appointment to come from Unallocated Faculty Salaries. (RBC-273)

16. Appoint Mr. Buford D. Janes (non-tenure) Assistant Instructor at an annual salary rate of \$17,000 effective August 14, 1972. Funds needed for this appointment to come from Bexar County Hospital District Contract No. 6. (RBC-276)

Pediatrics

17. Accept the resignation of Dr. Fred M. Taylor (tenure), Professor at an annual salary rate of \$28,500 effective at the close of business August 31, 1972. (RBC-265)

18. Appoint Dr. William Weston III (initial request for tenure) Associate Professor at an annual salary rate of \$25,500 effective August 16, 1972. Funds for this appointment to come from Unallocated Faculty Salaries (\$23,500) and Gifts from MSRDP - Pediatrics (\$2,000). (RBC-278)

Physiology

19. Appoint Dr. Roger J. M. McCarter (non-tenure) as Assistant Professor at an annual salary rate of \$19,000 effective July 15, 1972. Funds needed for this appointment to come from Unallocated Faculty Salaries. (RBC-258)

Psychiatry

20. Appoint Mr. John L. Bradley (non-tenure) Assistant Instructor (Sociology) at an annual salary rate of \$15,000 effective August 21, 1972. Funds for this appointment to come from DHEW - SRS Grant 09-P-56107/6-01. (RBC-275)

21. Reappoint Dr. Harry A. Wilmer, Jr. (non-tenure) as Professor (25% time) at an annual salary rate of \$28,000 effective July 1, 1972 through August 31, 1972. Funds needed for this reappointment to come from DHEW Grant 5 T01 MH11891-04. (RBC-279)

22. Reappoint Dr. James M. Stedman (non-tenure) Assistant Professor (Psychology) at an annual salary rate of \$19,000 effective August 1, 1972. Funds needed for this reappointment to come from Unallocated Faculty Salaries. (RBC-280)

23. Change the source of funds for Dr. Leonard E. Lawrence (non-tenure) Assistant Professor at an annual salary rate of \$25,000 from DHEW Grant 5 T01 MH12651-02 to Psychiatry, Teaching Salaries. Funds for this change to come from Unallocated Faculty Salaries. (RBC-282)

24. Reappoint Dr. Carl M. Pfeifer (non-tenure) Assistant Professor (50% time) at an annual salary rate of \$25,000 effective August 1, 1972. Funds needed for this reappointment to come from Unallocated Faculty Salaries. Dr. Pfeifer also serves as Assistant Professor of Psychiatry (50% time) paid from BCHD Contract #6. (RBC-283)

25. Change the source of funds for Dr. Charles L. Bowden (non-tenure) Assistant Professor at an annual salary rate of \$23,500 effective August 1, 1972 from Assistant Professor (10% time) to Assistant Professor (80% time). Funds needed for this change to come from Unallocated Faculty Salaries. Dr. Bowden also serves as Assistant Professor of Psychiatry (20% time) from Bexar County MH/MR Drug Dependence #3. (RBC-284)

26. Change the source of funds for Dr. Harry A. Wilmer, Jr. (non-tenure) Professor (25% time) at an annual salary rate of \$28,000 effective August 1, 1972 from DHEW Grant 5 T01 MH11891-04 to Psychiatry, Teaching Salaries. Funds needed for this change to come from Unallocated Faculty Salaries. (RBC-285)

27. Change the effective date of appointment for Mr. John L. Bradley (non-tenure) Assistant Instructor at an annual salary rate of \$15,000 from August 21, 1972 to August 28, 1972. (RBC-286)

Radiology

28. Change the effective appointment date of Dr. Antonio C. Gonzalez (non-tenure) as Assistant Professor at an annual salary rate of \$20,000 from July 25, 1972 to July 24, 1972. Funds needed for this change to come from Unallocated Faculty Salaries. (RBC-274)

Library

29. Appoint Mrs. Mary E. Spoede (non-tenure), Catalog Librarian and Instructor of Medical Bibliography at an annual salary rate of \$11,000 effective August 15, 1972. (RBC-264)

30. Change the title of Warren E. Coffman (non-tenure), Assistant Instructor of Medical Communications and Coordinator of Extramural Services to Assistant Instructor and Coordinator, Library Extension Program at an annual salary rate of \$11,000 effective August 1, 1972. Mr. Coffman is paid from DHEW Grant 5 G04 LM01262-02. (RBC-270)

TRANSFER OF FUNDS:

1. Amount of Transfer: \$6,962.00

To:	Office of the Purchasing Agent,	
	Classified Salaries	\$ 250.00
	Office of the Purchasing Agent,	
	M & O	2,100.00
	Anatomy, Travel	700.00
	Biochemistry, Travel	722.00
	Microbiology, M & O	1,200.00
	Pathology, Classified Salaries	1,990.00
From :	Office of the Director of	
	Accounting, Classified Salaries	\$ 250.00
	Personnel Clinic, M & O	2,100.00
	Anatomy, M & O	700.00
	Biochemistry, M & O	722.00
	Microbiology, Travel	1,200.00
	Unallocated Faculty Salaries	1,990.00
For:	To provide the funds necessary	
	for these departments to meet	
	their operational requirements.	
	(RBC-236)	

2. Amount of Transfer: \$6,007.30

To:	Office of the Business Manager, Maintenance and Operation	\$ 400.00
	Office of the Personnel Director, Maintenance and Operation	300.00
	Library, Maintenance and Operation	2,100.00
	Office of Graduate & Sponsored Programs, Maintenance and Operation	721.40
	Medicine, Maintenance and Operation	1,670.00
	Psychiatry, Classified Salaries	500.00
	Scientific Computer Center, Maintenance and Operation	315.90
From :	Office of the Business Manager, Travel	\$ 400.00
	Office of the Personnel Director, Travel	300.00
	Library, Classified Salaries	2,100.00
	Office of Graduate & Sponsored Programs, Travel	721.40
	Medicine, Classified Salaries	1,670.00
	Psychiatry, Maintenance and Operation	500.00
	Multidiscipline Laboratories, Maintenance and Operation	315.90
For :	To provide the funds necessary to enable these departments to meet their operational requirements. (RBC-254)	

3. Amount of Transfer: \$4,266.79

To:	Office of the Personnel Director, Wages	\$ 58.22
	Central Receiving, General Stores, and Inventory, Classified Salaries	32.00
	Central Receiving, General Stores, and Inventory, Maintenance & Operation	300.00
	Anatomy, Teaching Assistants	1,733.32
	Microbiology, Wages	35.00
	Pathology, Classified Salaries	588.55
	Physical Medicine and Rehabili- tation, Classified Salaries	531.45
	Psychiatry, Wages	112.00
	Surgery, Classified Salaries	66.36
	Medical Communications, Classified Salaries	30.32
	Scientific Computer Center, Classified Salaries	236.59
	Physical Plant, Grounds Maintenance, Classified Salaries	442.74
	Physical Plant, Grounds Maintenance, Wages	73.84
	Physical Plant, Custodial Services, Wages	26.40
From:	Office of the Personnel Director, Classified Salaries	\$ 19.67
	Microbiology, Classified Salaries	35.00
	Psychiatry, Classified Salaries	112.00
	Medical Communications, Wages	30.32
	Scientific Computer Center, Wages	236.59
	Unallocated Faculty Salaries	1,733.32
	Unallocated Administrative & Professional Salaries	1,799.89
	Unallocated Maintenance & Operation	300.00
For:	To provide the funds necessary for these departments to meet their operational needs. (RBC-260)	

4. Amount of Transfer: \$6,578.96

To:	Office of Academic Development, Classified Salaries	\$ 256.00
	Office of the Personnel Director, Wages	118.07
	Anatomy, Classified Salaries	565.00
	Biochemistry, Teaching Assistants	600.00
	Biochemistry, Classified Salaries	710.00
	Obstetrics-Gynecology, Maintenance and Operation	850.00
	Pathology, Classified Salaries	75.51
	Pathology, Maintenance and Operation	1,400.00
	Physiology, Classified Salaries	4.38
	Library, Maintenance and Operation	2,000.00
From:	Office of the Personnel Director, Classified Salaries	\$ 118.07
	Library, Books, Serials, and Binding	2,000.00
	Unallocated Faculty Salaries	4,460.89
For:	To provide funds necessary for these departments to meet their operational needs. (RBC-272)	

BUDGET ADJUSTMENTS:

Service Departments

Medical Communications

5. Budget Adjustment: \$16,000.00

To:	Maintenance, Operation and Equipment
From:	Credit for Sales and Services
For:	To adjust anticipated income and to budget this amount as needed for operations. (RBC-277)

GRADUATE PROGRAM CATALOGUE: In accordance with the recommendation of the Faculty and the Graduate Program Administrator, it is requested that the Catalogue be approved for the academic year 1972-73. This catalogue has been approved by the Vice-Chancellor for Health Affairs:

THE UNIVERSITY OF TEXAS
MEDICAL SCHOOL AT SAN ANTONIO

GRADUATE PROGRAMS CATALOGUE

1972-1973

TABLE OF CONTENTS

BOARD OF REGENTS	1
OFFICERS OF ADMINISTRATION	1
BEXAR COUNTY HOSPITAL DISTRICT	2
DEPARTMENTAL CHAIRMEN	4
ESSAY ON GRADUATE EDUCATION	5
ACADEMIC CALENDAR	7
INTRODUCTION -- GRADUATE WORK	
Nature and Purpose	9
Admission	10
Double Degree Program	13
GENERAL INFORMATION	
History	16
The Site	16
The Building	17
San Antonio	17
Hospitals	18
The Library	20
Living Arrangements	23
Policy	23
FINANCIAL INFORMATION	
Tuition and Fees	23
Residency Defined	25
Exemption from Tuition and Fees	30
Tuition of Handicapped Students	30
Refund of Tuition and Fees	31
Student Health Services	31
Graduation Fee	32
Microfilming Fee	32
Laboratory Fees	32
Parking Fee	33
Assistantships	33
Scholarships	33
Loan Funds	33
Quantity-of-Work Rule	35
Student Debts	36

REQUIREMENTS AND REGULATIONS	
Registration	37
Residence	38
Audit Enrollment	39
File Number	39
Grades and Grade-Point Average	39
Credits	40
Continuation in the Graduate Programs	41
Proficiency in English	42
Foreign Language Requirement	42
Supervised Teaching	42
Course Load	43
Adding Courses	43
Dropping Courses	44
Withdrawal	44
Time Limits	44
Graduation under a Particular Catalogue	44
Graduation	45
Supplemental Information	45
SEQUENTIAL PROCEDURES	
Doctor of Philosophy Degree	45
Master of Arts Degree	48
PROGRAM IN ANATOMY	
Objectives of Graduate Work	50
Programs of Graduate Work	50
Physical Facilities	52
Faculty	53
Specific Degree Requirements	54
Graduate Courses	57
PROGRAM IN BIOCHEMISTRY	
Objectives of Graduate Work	61
Programs in Graduate Work	61
Physical Facilities	62
Faculty	62
Specific Degree Requirements	64
Graduate Courses	65
PROGRAM IN BIOPHYSICS	
Objectives of Graduate Work	69
Programs of Graduate Work	69
Physical Facilities	70
Faculty	71

Specific Degree Requirements	72
Graduate Courses	73
PROGRAM IN MICROBIOLOGY	
Objectives of Graduate Work	80
Programs of Graduate Work	80
Physical Facilities	81
Faculty	82
Specific Degree Requirements	84
Graduate Courses	86
PROGRAM IN PHARMACOLOGY	
Objectives of Graduate Work	91
Programs of Graduate Work	91
Physical Facilities	92
Faculty	92
Specific Degree Requirements	94
Graduate Courses	95
FACULTY ROSTER	101
STUDENT ROSTER	107
DEGREES CONFERRED	110
LOCATION MAP OF THE UNIVERSITY OF TEXAS MEDICAL SCHOOL AT SAN ANTONIO	111

BOARD OF REGENTS

OFFICERS

John Peace - Chairman

Frank N. Ikard - Vice-Chairman

Betty Anne Thedford - Secretary

MEMBERS

Terms Expire January, 1973

Frank N. Ikard	Wichita Falls
Joe M. Kilgore	Austin
John Peace	San Antonio

Terms Expire January, 1975

Frank C. Erwin, Jr.	Austin
Jenkins Garrett	Fort Worth
Dan C. Williams	Dallas

Terms Expire January, 1977

Mrs. Lyndon B. Johnson	Stonewall
A. G. McNeese, Jr.	Houston
Joe T. Nelson, M.D.	Weatherford

OFFICERS OF ADMINISTRATION

General Administration

Charles A. LeMaistre, B.A., M.D., Chancellor of The
University of Texas System, Austin

William H. Knisely, Ph.D., Vice Chancellor for Health Affairs
of The University of Texas System, Austin

E. D. Walker, M.B.A., C.P.A., Deputy Chancellor for
Administration of The University of Texas System,
Austin

Truman G. Blocker, Jr., A.B., M.D., President ad Interim

Armand J. Guarino, B.S., Ph.D., Graduate Program
Administrator

Elizabeth Verder, S.B., Ph.D., Assistant to the Graduate
Program Administrator

Paul Cutler, B.A., M.D., Associate Dean for Clinical Affairs

Warren G. Harding, B.A., M.Ed., Associate Dean for Hospital
Affairs

Carlos Pestana, B.S., M.D., Ph.D., Associate Dean for
Academic Development

William F. Smith, B.S., M.B.A., Assistant Dean for Hospital
Affairs

Auben W. Brunnemann, B.A., Coordinator of Curriculum and
Academic Programs

Betty M. Compton, B.A., Registrar

David A. Kronick, B.A., B.S.L.S., Ph.D., Librarian

Richard E. Miller, B.A., Director of Media and Community
Information

Jack A. Rodgers, B.A., M.M.A., Deputy Chairman, Medical
Communications

Fred W. Todd, B.B.A., M.A., M.L.S., Assistant Librarian

Billy D. Vandeventer, Financial Aids Officer

Business Administration

Everitt M. Mahon, B.B.A., Associate Dean for Administrative
Affairs

Bruce M. Smith, B.A., C.P.A., Business Manager

Earl A. Siebold, B.B.A., C.P.A., Assistant Business Manager

Billy J. Barker, B.B.A., Director of Accounting

Daniel D. Davis, B.B.A., Acting Purchasing Agent

Paul C. Crall, B.S., Director of Physical Plant

George E. Mangrem, B.S.M.E., M.S.M.E., Assistant Director
of Physical Plant

Travis M. Fleming, Jr., B.S., Personnel Director

Gary J. Robisheaux, B.B.A., Director of General Services

BEXAR COUNTY HOSPITAL DISTRICT

Board of Managers

Harvey Komet, M.D., Chairman

William Sinkin

Sam Madrid, Jr.

M. L. Preacher, M.D.

Cleo Bohls

Ernest Cortes

William Hinsch

Hospital Administration

Warren G. Harding, Administrator

William F. Smith, Associate Administrator

George Willis, Associate Administrator

William E. Young, Assistant Administrator

Neil M. Chur, Assistant Administrator

William J. Beha, Assistant Administrator

Ben Sifuentes, Assistant Administrator

Eula M. Bullock, Assistant Administrator

DEPARTMENTAL CHAIRMEN

ANATOMY

Edward G. Rennels, Ph.D.

ANESTHESIOLOGY

Howard L. Zauder, M.D., Ph.D.

BIOCHEMISTRY

Armand J. Guarino, Ph.D.

BIO-ENGINEERING

Caspar W. Hiatt, III, Ph.D.

LABORATORY ANIMAL MEDICINE

Benjamin D. Fremming, D.V.M.

MEDICAL COMMUNICATIONS

David Kronick, Ph.D.

MICROBIOLOGY

Alexis Shelokov, M.D.,

OBSTETRICS AND GYNECOLOGY

Joseph Seitchik, M.D.

PATHOLOGY

Frank M. Townsend, M.D.

PEDIATRICS

Stanley E. Crawford, M.D.

PHARMACOLOGY

Arthur H. Briggs, M.D.

PHYSICAL MEDICINE AND REHABILITATION

Arthur E. Grant, M.D.

PHYSIOLOGY AND MEDICINE

Timothy N. Caris, M.D., (Acting Chairman)

PSYCHIATRY

Robert L. Leon, M.D.

RADIOLOGY

Peter Zanca, M.D.

SURGERY

J. Bradley Aust, M.D., Ph.D.

ESSAY ON GRADUATE EDUCATION

Graduate Education, leading to the Master's and Doctorate degrees in the Biomedical Sciences, historically has been a vital part of the programs of every medical school in this country. For the most part these programs have centered largely in the basic science departments encompassing the classic disciplines of Anatomy, Biochemistry, Microbiology, Pharmacology, Physiology, and Pathology. More recently with the advent of behavioral sciences as integral to the training of physicians, graduate programs in the medical schools are beginning to emerge in these areas as well.

With the increase of interest in interdisciplinary research, formal graduate programs have evolved outside of the traditional departmental structure. For instance, within our own institution an interdisciplinary Program in Biophysics has materialized which utilizes the faculties of the Departments of Bioengineering, Physiology and Medicine, Radiology, and Laboratory Animal Medicine. Graduate Education in the Biomedical Sciences will see more of such interdisciplinary training and research in the future.

The question may be asked: Why has graduate education evolved in the biomedical setting? It is evident from the myriad contributions of these fields that the Biomedical Sciences are indispensable to continued advancement of medicine both scientifically and clinically. Individuals representing these sciences not only play a role in advancing knowledge in their respective fields, but, of course, are also intimately involved in medical education. It should be noted that a significant proportion of the scientists who have made fundamental contributions to biology make up faculties of such institutions. Teaching young scientists in their fields is as fundamental to the vitality of a basic science faculty as intern and residency training is to a clinical faculty.

The significant contributions to man's understanding of his own biology and biosocial functioning by science faculties is most appropriate in the medical school environment. Application of this knowledge to the understanding of disease processes in the human is best carried out in this setting where the physician is constantly treating disorders which have their roots in molecular processes. The ability to analyse these abnormalities in the human through biopsy, tissue removed at surgery or aspiration of amniotic fluid of the pregnant woman, etc., provides unique opportunities to apply molecular knowledge to the diagnosis and treatment.

Pharmacologists, scientists concerned with the mechanism of action of drugs as well as the design of new ones, ultimately test compounds after extensive screening in animals for their value in the human. The logical setting for this kind of research is again the medical school.

Bioengineers have made great strides in the application of their knowledge to specific medical problems. One has only to mention the design of new and better prostheses, the development of the pacemaker, and the more recent applications of lasers, holography, and ultra-sound to the treatment and diagnosis of human ills to realize their impact on medicine.

The list of such applications is indeed growing at a rapid rate, but the above will suffice to indicate the kinds of contributions that can be made. Graduate Programs thus in Biomedical Science Institutions provide the newly trained scientist an opportunity to make fundamental contributions in the field of his specialization, as well as to play a crucial role in the application of this knowledge first hand to the alleviation of human suffering.

ACADEMIC CALENDAR

1972-1973

FALL SEMESTER 1972

Registration	Friday, August 25
Classes begin	Monday, August 28
Labor Day holiday	Monday, September 4
Thanksgiving holidays	Wednesday-Friday, November 22-24
Last day of final examinations	Tuesday, December 19
Graduate Day (No Public Exercises)	Friday, December 22

SPRING SEMESTER 1973

Registration	Friday, January 12
Classes begin	Monday, January 15
Good Friday holiday	Friday, April 20
San Jacinto Day holiday	Friday, April 27
Last day of final examinations	Friday, May 18
Commencement	Saturday, May 26

SUMMER SESSION 1973

Registration	Friday, June 1
Classes begin	Monday, June 4
Independence Day holiday	Wednesday, July 4
Last day of final examinations	Wednesday, August 22
Graduation Day (No Public Exercises)	Friday, August 24

Each Graduate Program is composed of professors and scientists who are designated as Members or Associates of the Graduate Faculty and of students admitted to pursue studies toward a Master of Arts or Doctor of Philosophy degree in the biomedical sciences. All programs are approved by the Coordinating Board, Texas College and University System. The administrative head of the Programs is the Graduate Program Administrator. A Graduate Faculty Executive Committee, made up of Graduate Faculty, meets monthly and formulates general academic policies of the Programs; the Graduate Administrator serves as chairman. Members of the Graduate Faculty of each Program form the Committee on Graduate Studies; it is responsible for recommending the admission of students to the Program, approving academic programs and certifying eligibility of students for admission to candidacy for a degree. Each program appoints a Graduate Advisor who represents the Graduate Program Administrator in all matters pertaining to the graduate students taking major work in the area.

THE NATURE AND PURPOSE OF GRADUATE WORK

Graduate programs leading to the Master of Arts and Doctor of Philosophy degrees are offered in Anatomy, Biochemistry, Biophysics, Microbiology, and Pharmacology. If only a limited number of students can be accommodated, then qualified applicants for the doctoral degree will be given preference. A qualified applicant may be admitted directly to a doctoral program without a Master's degree. Within these five programs candidates for degrees may acquire competence in many fields under the guidance of established teachers and investigators: anatomy, bacteriology, biochemistry, biological ultrastructure, biomathematics, biomedical engineering, biophysics, biostatistics, cell physiology, cinematography, clinical pathology, crystallography,

cytology, embryology, endocrinology, enzymology, experimental pathology, genetics, hematology, histology, immunology, immunohematology, immunogenetics, immunopathology, metabolism and biosynthesis, medical physics, molecular biology, mycology, neurosciences, nuclear physics and chemistry, oncology, parasitology, pathophysiology, pharmacology, photobiology, systems physiology, psychology, radiobiology, scientific computer programming, structure of macromolecules, virology, etc.

ADMISSION

The basic requirement for admission is a bachelor's degree from an accredited institution in the U.S. or proof of equivalent training at a foreign institution. Adequate subject preparation for the proposed area of graduate study is essential. The applicant must have obtained a satisfactory score on the Graduate Record Examination Aptitude Test. Each application is evaluated by the appropriate Committee on Graduate Studies and forwarded to the Graduate Faculty Executive Committee. The applicant is informed in writing by the Graduate Program Administrator of the action and any conditions imposed on acceptance.

All individuals applying for admission to the Graduate Programs who plan to enter in the Summer Session or Fall Semester should have their completed applications on file in the Graduate Office by March first; to enter in Spring Semester, by September first. An applicant may submit an incomplete transcript with his original application and substitute a complete official transcript showing the most recently completed semester(s) of course work as soon as it becomes available; it must be received by the Registrar before the student registers for his first semester of graduate courses.

Applicants for admission should obtain an application form and instructions for completing the application from the Office of Graduate and Sponsored Programs. Before evaluation each application should consist of: the completed application form; certified transcripts from each college attended; including each graduate or professional school; a letter from the applicant stating his objectives; three letters of recommendation; and the scores on the Graduate Record Examination.

The Graduate Record Examination Aptitude Test, administered by the Educational Testing Service, (Princeton, New Jersey or Berkeley, California) is given at various centers throughout the world on regularly established dates. A bulletin of information describing the test and an application may be obtained from the Testing Service; they are also available at some colleges and universities. The test scores should be forwarded directly to the Office of Graduate and Sponsored Programs of this institution (Code R-6908-8).

When there are more qualified applicants applying for entrance than the staff of a proposed program can guide effectively or accommodate in the available facilities, the Committee on Graduate Studies may deny admission to students even though they have met the essential requirements.

After receiving notification of acceptance for admission to the program of his choice, the student should arrange an appointment to confer with the Graduate Program Administrator and with the Graduate Advisor of his proposed major department to learn some of the specific regulations and requirements and to discuss his academic program in preparation for registration for his first semester.

A student who is admitted to the Graduate Programs at The University of Texas Medical School at San

at any one of the other components of The

University of Texas System:

The University of Texas at Austin

The University of Texas at Dallas

The University of Texas at El Paso

The University of Texas at Arlington

The University of Texas Southwestern Medical School at
Dallas

The University of Texas at San Antonio

The University of Texas Dental School at San Antonio

The University of Texas of the Permian Basin

The University of Texas Medical Branch at Galveston

The University of Texas Medical School at Houston

The University of Texas Dental Branch at Houston

The University of Texas M. D. Anderson Hospital and
Tumor Institute at Houston

The University of Texas Graduate School of Biomedical
Sciences at Houston

The University of Texas School of Public Health at Houston

The University of Texas Nursing School (Systemwide)

Formal admission to a graduate program is required

only at the institution from which the student plans

to graduate. Before requesting permission of the

instructor of the course(s) and the chairman of the

department through the appropriate Dean's office of

the selected component, the student should obtain

the consent of his graduate advisor and the Graduate

Program Administrator to include the suggested

course(s) in his academic program and to spend the

necessary time away from The University of Texas

Medical School at San Antonio. Arrangements are

made for proration of tuition and fees.

Special Students: Under certain conditions an

individual may wish to register as a Special Student

for one or two graduate courses for credit. Permission

will depend upon several qualifications:

1. Adequate academic preparation for each course
and acceptance for registration by both the
instructor(s) and the Graduate Advisor(s).

2. Written approval of the Graduate Program

Administrator. Permission is valid for only one

semester.

3. The number of semester hours of credit involved does not exceed nine.
4. The Registrar agrees that no undue crowding of facilities will result.

Credit toward a graduate degree for courses taken as a Special Student will be considered by the Graduate Faculty Executive Committee when/if the student's application for admission to a graduate program is approved.

DOUBLE DEGREE PROGRAM

The Double Degree Program was designed to allow a student to obtain an M.D. and M.A. or an M.D. and a Ph.D. degree at The University of Texas Medical School at San Antonio. The scientist who is well trained in the basic medical science in which he obtains a graduate degree usually has not encountered the opportunity to apply this specialized knowledge to clinical medicine. The physician, on the other hand, often becomes aware of clinical problems which might easily have their solution in a basic science discipline. In short, there may be a communications gap between these two types of scientists. It is extremely advantageous to have a number of individuals who have depth of knowledge in both basic science and clinical medicine in order to bridge this gap. The development of a mechanism at The University of Texas Medical School at San Antonio for students to be trained in both areas is an effort to provide the biomedical community with such individuals.

The program is based on the premise that any student desirous of obtaining both an M.D. and a graduate degree while a student at The University of Texas Medical School at San Antonio would plan to meet the full requirements defined for both degrees.

Accreditation of the medical school and its programs is achieved through the Liaison Committee of the

American Medical Association and the Association of American Medical Colleges. Any medical student in such a combined degree program must meet all requirements established by the medical school, which have been approved by this liaison committee. Accreditation of the Graduate Programs is obtained through the Coordinating Board, Texas College and University System. The Graduate Programs of this institution have all been approved by this Board. All students in a double degree program must, for either the M.A. or Ph.D. degree, meet the full requirements for these programs as approved by the Coordinating Board.

Each student must satisfy the entrance requirements for both the medical school and the Graduate Programs, and approval for admission shall be accomplished separately. Admission to the medical school in no way guarantees admission to a Graduate Program, nor does admission to a Graduate Program guarantee admission to the medical school. A student need not register his intent of securing both an M.D. and a graduate degree at the time of admission to either the medical school or Graduate Programs. At the time a student in the medical school makes the decision to pursue a course of study for a graduate degree he may apply for admission to the Graduate Program of his choice. The same principle applies to the student who originally enters the Graduate Programs. A student may withdraw from either school without in any way jeopardizing the pursuit of a degree in the other. The total time added to the typical medical school curriculum is generally a year for the Master's degree or three years for the Ph.D. degree. Utilization of summer work and elective periods in the medical curriculum would contribute to economy in total time span. The specific details as to the logistics of pursuing a Graduate Program while registered in medical school will depend on the specific Graduate Program undertaken and, in every instance, should be worked out between the student

and the appropriate Committee on Graduate Studies with final approval by the Graduate Faculty Executive Committee.

For additional information consult either the Associate Dean for Academic Affairs of the medical school or the Graduate Program Administrator.

GENERAL INFORMATION

HISTORY

The University of Texas Medical School at San Antonio was created in 1959 by an Act of the 56th Texas Legislature. The San Antonio Medical Foundation donated 100 acres in the 683-acre South Texas Medical Center to The University of Texas for the medical school site; it also gave an additional adjacent 22 acres to Bexar County for a teaching hospital. Architectural plans were completed in 1965 under the leadership of Dean F. C. Pannill and faculty recruitment was started. Through the generosity of Trinity University the faculty and staff of the medical school were located temporarily in the William L. Moody Science Building until their move to the medical school in 1968. Approximately four years after moving into its permanent location, the school has some 850 employees, including 197 full-time faculty members who have come from all parts of the country, and more than 520 part-time clinical faculty members. The graduate faculty number 112.

THE SITE

The main entrance to the medical school is at 7703 Floyd Curl Drive. Both parking facilities and access roads are convenient to the school. The University of Texas Dental School and Clinical Nursing School at San Antonio were authorized by the Texas Legislature in 1969, and both began admitting students in 1970 utilizing temporary space provided in the medical school. The projected total enrollment in the school of nursing for the 1972-1973 academic year is 170 while that for the dental school is 63

students. Graduate programs in Anatomy, Biochemistry, Biophysics, Microbiology, and Pharmacology were approved in 1970, and 15 graduate students were enrolled by September, 1970. The projected enrollment in all graduate programs for the academic year 1972-1973 is between 50 and 60. Future health science educational units projected by The University of Texas for the South Texas Medical Center include: a school of allied health sciences, rehabilitation institute, neuropsychiatric institute, geriatric research and care centers, cardiovascular institute, pharmacology unit, atmospheric environment center, and a center for alcoholism and drug addiction; also planned are space for additional graduate programs, expansion of basic and clinical sciences research facilities, student housing, and student dormitories.

THE BUILDING

The medical school is a four-story building (432,816 square feet) of irregular configuration including teaching laboratories, faculty offices, research laboratories, student study and activity areas, library (capacity of 170,000 volumes), auditorium (650 seats), administrative offices, and research animal quarters; also supporting storage, service and mechanical areas. A separate central utilities plant serves the growing medical center. Because of its excellent acoustics the auditorium is used for many community activities including recitals and lectures. The spacious foyer of the auditorium is also popular for frequent major art exhibits.

SAN ANTONIO

A metropolitan city of about 800,000 people, San Antonio is high on the list of America's interesting and colorful cities. Known popularly as "the place where sunshine spends the winter," San Antonio enjoys normal mean temperature ranges from 52 degrees in January to 84 degrees in July. Blessed with

three universities and four colleges, San Antonio will also be the location of a new four-year academic institution in The University of Texas System authorized in May 1969 by the 61st Texas Legislature; it will be located on a ridge of hills 10 miles north of the medical school. San Antonio has 3,320 acres of park land; the zoological gardens and aquarium are among the finest and largest in the country. Culturally, San Antonio boasts a symphony, a Grand Opera Festival, and regular performances by internationally known concert artists, choreographers and theatrical groups in the new performing arts theater. The McNay Art Institute and the Witte Museum are among the leading small museums in the nation. The San Antonio Livestock Exposition and Rodeo, and the San Antonio Charity Horse Show rank high among the nation's best.

HOSPITALS

Many research scientists, some of whom have joint appointments in the departments of the medical school, conduct research in other institutions located in San Antonio. The talents of these individuals as well as the facilities available to them in many instances have proven a valuable asset to the educational programs of the medical school. A listing of these institutions follows:

The Bexar County Teaching Hospital adjoins the medical school. Planned integrally with the medical school, the new 486-bed 12-story hospital provides all general hospital services. Also it is specifically designed to meet the needs of a diversified teaching program. Adjacent to all patient areas are study cubicles, classrooms, laboratories, and examining and treatment rooms for use by students.

The Robert B. Green Memorial Hospital is also a teaching hospital of The University of Texas Medical School at San Antonio and is operated by the Bexar County Hospital District. Located in the downtown

area of the city, the Robert B. Green Memorial Hospital houses ambulatory services, a family care clinic; and obstetrical, newborn, and emergency clinic services. The outpatient department includes 45 different clinics treating over 100,000 patients yearly. In addition to advanced intern, residency and fellowship programs, the hospital supports a program of vocational training for practical nurses in association with St. Phillip's College and a residency program for hospital administrators.

Ground was broken November 20, 1970 for a new 760-bed Veterans Administration Hospital to be built in the South Texas Medical Center near the Bexar County Hospital. It is expected to be completed and operational by March 1, 1974. The hospital will have 400 beds for general patients and 360 beds for psychiatric patients, and will serve 40 counties of Southwest Texas.

Brooke General Hospital, a major facility in the Brooke Army Medical Center, is located at Fort Sam Houston, Texas. Patients come to the 1,150-bed hospital, one of the Army's largest teaching hospitals, from the San Antonio area as well as from every part of the United States and overseas. Patients arrive almost daily by way of the Military Airlift Command evacuation planes from Europe, Alaska, the Far East, and/or other points where United States military personnel are stationed. Brooke General Hospital is operated for definitive medical and surgical care of military and authorized civilian personnel; it also provides outpatient medical, surgical, and dental care to authorized individuals. Intern and residency training programs are conducted for medical and dental officers. Training for officer and enlisted personnel is available in physical therapy, occupational therapy, and selected medical technology. The United States Army Institute of Surgical Research, the only organization of its kind in the Army, conducts research in trauma of particular significance to military medicine. Studies in the

treatments of burns have led to designation of the institute as the Army's burn treatment center.

Wilford Hall, USAF Hospital at Lackland Air Force Base, Texas is the primary component of the Aerospace Medical Division. It is a modern 1,100 bed general hospital admitting approximately 25,000 patients annually. It furnishes full-scale medical care not only to the military population, their dependents, and retired personnel in the San Antonio area but also to patients referred from other Air Force installations in the United States and overseas. The hospital is a center for studies involving cardiac surgery, cardiopulmonary function, histopathology, use of radioisotopes, cobalt therapy, and speech and hearing problems. It also has a complete diagnostic unit and the dental laboratory for the area.

The Aerospace Medical Division Headquarters of the Air Force Systems Command, located at Brooks Air Force Base, Texas, has a three-fold mission: research and development in the medical aspects of aerospace flights, special clinical expertise, and post-graduate education in aerospace medicine and allied subjects. One of the units collocated at Brooks Air Force Base is the USAF School of Aerospace Medicine. Originally organized in 1917 as the Aviation Medicine Laboratory in Mineola, Long Island, New York, the School of Aerospace Medicine has been continuously active since that time. In 1949 it organized the first department of space medicine, and continues to play key roles in research in space cabin atmospheres, radiation hazards, disorientation, and a variety of other problems encountered in aerospace operations. The school also conducts 30 courses in specialized training ranging in length from three days to three years.

THE LIBRARY

The library is a medical school's primary resource for individual learning. Also it is the repository of

information to serve the teaching, research, and medical care functions of the medical center. It is a laboratory in which a student acquires the necessary skills in information processing which will serve him the rest of his professional life. An active program of orientation in the use of medical reference sources is one of the important functions of the library staff.

The library is adjacent to student activity areas. Private study spaces are available in the library as are areas for group study and use of audiovisual equipment.

The projected capacity of the library is 170,000 volumes. Although it will be some years before full capacity is achieved, the collection already numbers approximately 51,000 volumes. At the present time the library receives more than 1700 periodicals and is rapidly adding to its stock of catalogued monographs and serials; it is also a repository for single concept films.

The library is a part of the Department of Medical Communications which includes medical art and photography, television resources, print shop, and other facilities for the production and utilization of group and individual learning resources, including single concept films, videotapes, and other audiovisual media. MEDLARS and other computer-based information retrieval services are available on request.

Among the other literature resources in San Antonio is the excellent School of Aerospace Medicine Library at Brooks Air Force Base with a collection of over 90,000 volumes. Close cooperation exists between the Aerospace Medical Library and the library of the medical school. The medical school library is a charter member of the Texas Council of Health Sciences Libraries which serves to coordinate the literature services of the medical branches of The University of Texas and other state medical libraries.

The library has also been designated as one of the resource libraries for the proposed South Central Regional Medical Library Program. A teletypewriter station maintained in the library provides rapid access to interlibrary loan services from other biomedical and research libraries in the five-state region and in the nation.

LIVING ARRANGEMENTS

Living arrangements are made by each individual student. Although there is no housing for graduate students, the Registrar in the Office of Academic Development maintains a listing of houses and apartments and will assist students whenever possible. Married students should arrange for living accommodations well in advance of matriculation. A cafeteria is available in the Bexar County Hospital.

POLICY

With respect to the admission and education of students, with respect to the employment and promotion of teaching and nonteaching personnel, and with respect to student and faculty activities on the premises of the medical school, no discrimination shall be permitted either in favor of or against an individual on account of race, creed, sex or color.

FINANCIAL INFORMATION

TUITION AND FEES

All tuition and fees⁺ are payable at the time of registration; a student is not registered until his tuition and fees are paid in full.

Tuition ⁺ - Texas resident student* enrolled for 12 or less semester hours a semester	\$ 50.00
Tuition ⁺ - nonresident (U.S. citizens)** enrolled for 12 hrs (\$40 per hour) a semester	480.00

Tuition [†] - nonresident (foreign students)** for 14 or less semester hours a semester	200.00
Audit fee [†]	5.00
Student health fee a year	45.00
Hospitalization insurance (minimum) a year	46.56
Graduate fee [†]	25.00
Microfilming fee [†]	25.00
Laboratory fee (for each course)	8.00
Parking fee a year	3.00

Tuition for students enrolled for 15 semester credit hours or less:

Number of hours taken	Residents of Texas	Nonresidents	
		U.S. citizens	Foreign students
15	\$60.00	\$600.00	\$210.00
14	56.00	560.00	200.00
13	52.00	520.00	200.00
12	50.00	480.00	200.00
11	50.00	440.00	200.00
10	50.00	400.00	200.00
9	50.00	360.00	200.00
8	50.00	320.00	200.00
7	50.00	280.00	200.00
6	50.00	240.00	200.00
5	50.00	200.00	200.00
4	50.00	160.00	200.00
3	50.00	120.00	200.00
2	50.00	80.00	200.00
1	50.00	40.00	200.00

*In absentia registration is \$15.00

Registration for final credit-hours for Thesis or Dissertation only is \$12.00

**In absentia registration is \$18.50

Registration for final credit-hours for Thesis or Dissertation only is \$50.00

+Tuition and/or fees are subject to change without prior notice by action of the Legislature and/or The Board of Regents.

†The fee is \$5.00 for regularly enrolled students or The University of Texas employees; \$25.00 for other individuals.

RESIDENCY DEFINED

The student is responsible for registering under the proper residence classification. If he has any question about his right to classification as a resident of Texas, he should consult the Registrar and have it officially determined. The regulations are set forth in Vernon's Civil Statutes (Article 2654c). Rules, regulations and interpretations have been issued by the Coordinating Board, Texas College and University System, for its effective and uniform administration.

Under the nonresident regulations defined by the Texas Legislature, the term "resident" means "domicile;" the term "resided in" means "domiciled in;" and the status of a student as a "resident" or "nonresident" student is determined as follows:

Individuals under 21 years of age

1. An individual under twenty-one (21) years of age, living away from his family, and whose family resides in another state or has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student;
2. An individual twenty-one (21) years of age or under whose family has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student regardless of whether he has become the legal ward of residents of Texas or has been adopted by residents of Texas while he is attending an educational institution in Texas, or within a 12-month period before his attendance, or under circumstances indicating that the guardianship or adoption was for the purpose of obtaining status as a resident student;
3. An individual twenty-one (21) years of age or under whose parents were formerly residents of Texas is

entitled to pay the resident tuition fee for a 12-month period immediately following the parents' change of legal residence to another state.

Individuals over 21 years of age

4. An individual twenty-one (21) years of age or over who has come from outside Texas and who is gainfully employed in Texas for a 12-month period immediately preceding registration in an educational institution shall be classified as a resident student as long as he continues to maintain a legal residence in Texas;
5. An individual twenty-one (21) years of age or over who resides out of the state or who has come from outside Texas and who registers in an educational institution before having resided in Texas for a 12-month period shall be classified as a nonresident student;
6. A nonresident student classification is presumed to be correct as long as the residence of the individual in the state is primarily for the purpose of attending an educational institution. After residing in Texas for at least twelve (12) months, a nonresident student may be reclassified as a resident student as provided in the rules and regulations adopted by the Coordinating Board, Texas College and University System. Any individual reclassified as a resident student is entitled to pay the tuition fee for a resident of Texas at any subsequent registration as long as he continues to maintain his legal residence in Texas.

Married Students

7. A nonresident who marries and remains married to a resident of Texas, classified as such under this Act at the time of the marriage and at the time the nonresident registers, is entitled to pay the resident tuition fee regardless of the length of time he has lived in Texas, and any student who is a resident of Texas who marries a nonresident is entitled to pay the resident tuition fee as long as he does not adopt the legal residence of the spouse in another state.

8. Military personnel are classified in the following manner:
- a. An officer, enlisted man or woman, selectee or draftee of the Army, Army Reserve, Army National Guard, Air National Guard, Texas State Guard, Air Force, Air Force Reserve, Navy, Navy Reserve, Marine Corps, Marine Corps Reserve, Coast Guard, or Coast Guard Reserve of the United States, who is assigned to duty in Texas is entitled to register himself, his spouse, and their children in a state institution of higher education by paying the tuition fee and other fees or charges required of Texas residents, without regard to the length of time he has been assigned to duty or resided within the state; provided, however, that out-of-state Army National Guard or Air National Guard members attending training with Texas Army or Air National Guard units under National Guard Bureau regulations shall not be exempted from nonresident tuition by virtue of such training status nor shall out-of-state Army, Air Force, Navy, Marine Corps, or Coast Guard Reserves training with units in Texas under similar regulations be exempted from nonresident tuition by virtue of such training status. It is the intent of the legislature that only those members of the Army or Air National Guard, Texas State Guard, or other reserve forces mentioned above, be exempted from the nonresident tuition fee and other fees and charges only when they become members of Texas units of the military organizations mentioned above;
 - b. As long as they reside continuously in Texas, the spouse and children of a member of the Armed Forces of the United States who has been assigned to duty elsewhere immediately following assignment to duty in Texas are

entitled to pay the tuition fees and other fees or charges provided for Texas residents;

- c. If nonresident military personnel are attending an institution of higher education under a contract between the institution and any branch

of the Armed Forces of the United States, in which the tuition of the member of the military is paid in full by the United States Government, the students shall pay the nonresident tuition fee;

- d. A Texas institution of higher education may charge to the United States Government the nonresident tuition fee for a veteran enrolled under the provisions of a Federal law or regulation authorizing educational or training benefits for veterans;
- e. The spouse and children of a member of the Armed Forces of the United States who dies or is killed are entitled to pay the resident tuition fee, if the wife and children become residents of Texas within sixty (60) days of the date of death;
- f. If a member of the Armed Forces of the United States is stationed outside Texas and his spouse and children establish residence in Texas by residing in Texas and by filing with the Texas institution of higher education at which they plan to register a letter of intent to establish residence in Texas, the institution of higher education shall permit the spouse and children to pay the tuition, fees, and other charges provided for Texas residents without regard to length of time that they have resided within the state.

Employees of Institutions of Higher Education

9. A teacher, professor, or other employee of a Texas institution of higher education is entitled to register himself, his spouse, and their children in a state institution of higher education by paying the tuition fee and other fees or charges required for Texas residents, without regard to the length of time he has resided in Texas. A teacher, professor, or other employee of a Texas institution of higher education is any person employed at least one-half time on a regularly monthly salary basis by a state institution of higher education.

Student employees

10. A teaching assistant, research assistant, or other student employee of any institution covered by this section is entitled to register himself, his spouse, and their children in a state institution of higher education by paying the tuition fees and other fees or charges required of Texas residents, without regard to the length of time he has resided in Texas, provided that said student employee is employed at least one-half time in a position which relates to his degree program under rules and regulations established by the employer institution. This exemption shall continue for students employed two consecutive semesters through the summer session following such employment if the institution is unable to provide employment and, as determined under standards established by the institution, if the employee has satisfactorily completed his employment.

Students with Competitive Scholarships

11. A nonresident student holding a competitive scholarship of at least \$200 for the academic year or summer for which he is enrolled is entitled to pay the fees and charges required of Texas residents without regard to the length of time he has resided in Texas, provided that he must compete with other students, including Texas residents, for the scholarship and that the scholarship must be awarded by a scholarship committee officially recognized by the administration of the institution of higher education.

Alien Students

12. All aliens are classified as "nonresident students." However, an alien who is living in this country under a visa permitting permanent residence or who has filed with the proper Federal immigration authorities a declaration of intention to become a citizen has the same privilege of qualifying for resident status for fee purposes under this Act as has a citizen of the United states. A resident alien residing in a junior college district located immediately adjacent to Texas boundary lines shall be charged the resident tuition

- by that junior college.
13. The nonresident tuition fee prescribed in this Act does not apply to a nonresident student who is a

resident of a state situation adjacent to Texas and who registers in any Texas public junior college situated immediately adjacent to the state in which the resident resides. The nonresident student described in this Subsection shall pay an amount equivalent to the amount charged a Texas student registered at a similar school in the state in which the nonresident student resides.

EXEMPTION FROM TUITION AND FEES

1. Texas Ex-Servicemen

Legal residents who were residents at the time of entry into the military service may be eligible for exemption from tuition and fees. These students must have been honorably discharged and not eligible for education benefits provided for veterans by the United States Government. Additional details may be obtained from the Registrar; applications are processed by the Office of the Registrar.

2. Childred of Texas Veterans and of Certain Disabled Public Employees

Children of members of armed forces who died while in service and children of certain public employees who have suffered injury resulting in death or disability sustained in line of duty may be exempt from tuition and fees. For procedures to follow in making application, contact the Registrar.

3. Students from State Orphanages of Texas

Residents of Texas who are high school graduates of State orphanages are eligible for exemption from payment of tuition and fees. Funds are provided through scholarships. After admission to the Graduate Programs students should apply for a scholarship through the Financial Aids Officer.

TUITION OF HANDICAPPED STUDENTS

Handicapped students may have tuition, fees and other services paid through the Vocational Rehabilitation Division of his State Rehabilitation Commission, provided the vocational objectives selected by the student have been approved by a representative of his state or district office.

Applications should be made through the district office in the student's home city or county, if possible, or through his State Office of Vocational Rehabilitation. Texas residents may send requests to the Texas Office, 1301 Thirty-eight Street, Austin, Texas, 78751.

REFUND OF TUITION AND FEES

Regular Session

A student who officially withdraws from the Graduate Programs will receive a refund of tuition and fees as follows:

	Refunds
During first week of classwork	70%
During second week of classwork	60%
During third week of classwork	40%
During fourth week of classwork	20%
During fifth week of classwork and thereafter	00%

Summer Session

Refunds will be made as follows:

	Refunds
First three class days	70%
Fourth, fifth or sixth class day	60%
Thereafter	00%

In no case shall the total refund exceed 70% of tuition and fees. Refunds will be prepared within 30 days and mailed to the student's forwarding address in the files of the Registrar.

STUDENT HEALTH SERVICES

Graduate students (not their dependents) enrolled full-time in the Graduate Programs of The University of Texas Medical School at San Antonio are eligible for out-patient medical care by The University (Student) Health Service; they are seen for treatment or consultation in The University (Student) Health

Service Clinic during specified hours. Outside of regular Clinic hours, emergency medical care is provided in the emergency room of the Bexar County Hospital. The fee is \$17.00 per semester and \$11.00 per summer session. However, this fee does not cover in-hospital care. Students are required to enroll in some type of hospitalization plan; either the group plan available through the school or one that provides equal or greater benefits. The premium for the group Blue Cross Hospital Services Plan, designed for students at The University of Texas Medical School at San Antonio, costs \$46.56 per year per student; a student may enroll his wife and/or children at additional cost. Professional services rendered by full-time University faculty to students and their dependents will not be billed.

GRADUATION FEE

A graduation fee of \$25.00, covering the cost of the diploma, rental of cap, gown and hood and all other related expenses, is paid at the time of registration for semester or summer session in which the student plans to graduate.

MICROFILMING FEE (Ph.D. candidates only)

A microfilming fee of \$25.00, covering cost of microfilming the doctoral dissertation and publication of abstract of manuscript in Dissertation Abstracts International, is paid at the time of registration for semester or summer session in which the student plans to graduate.

LABORATORY FEES

Graduate students will pay laboratory fees commensurate with those paid by medical students in courses designed primarily for them. For one course the fee will be \$8.00; however, the amount assessed for the year will not exceed \$32.00

The parking fee is \$3.00 a year and includes one decal. Additional decals for a second or replacement vehicle are \$1.00 each per year.

ASSISTANTSHIPS

Various teaching and research assistantships are available. Prospective students should submit applications directly to the Graduate Advisor of the department in which they propose to do their majors. Students rendering one-half time service in teaching assistantships or research assistantships pay tuition at the resident rate. See item 10, page 29.

SCHOLARSHIPS

Eligibility is based primarily on financial need, but moral character, scholastic accomplishments and career potential are considered in making the awards. The scholarships vary in amount. Both U.S. citizens and foreign nationals may apply for these awards. Applications should be submitted to the Financial Aids Officer, Academic Development, The University of Texas Medical School at San Antonio.

LOAN FUNDS

Graduate Programs of The University of Texas Medical School at San Antonio have limited funds available for loans. Complete information and application forms may be obtained from the Financial Aids Officer, Room 306L. These loan programs include but are not limited to the following:

Long Term Loans

National Defense Student Loan Program

The Hinson-Hazlewood College Student Loan Program

The Federally Insured Student Loan Program

The Minnie Stevens Piper Foundation Student Loan Program

The Student Short-Term Loan Fund

The Student Emergency Loan Fund

QUANTITY-OF-WORK RULE

The Faculty Council of the medical school has stipulated that full-time graduate students may be paid annual salaries from institution funds when funds are available. Student stipends funded from Federal sources are governed by Federal regulations.

There may be circumstances under which part-time graduate students desire gainful employment within the medical school (or full-time employees desire to pursue part-time graduate studies), and the following guidelines should apply:

Within funds available, part-time graduate students who are gainfully employed part-time within the medical school in addition to pursuing graduate studies may be paid pro-rated rates within salary scales of the job classification for which they are qualified and/or to which they are assigned. This procedure is permitted primarily to allow gainful part-time employment in an area unrelated to the student's formal academic program.

The Committee on Graduate Studies should be consulted in advance when a part-time student desires part-time employment within his own supervising department, or when he is employed in a work situation that exists whereby the student's employment will be of direct benefit to him in meeting his graduate degree requirements. The committee should then recommend an appropriate part-time rate of pay consistent with the objectives of the graduate program in general with due consideration to the pay rates of other graduate students.

Departments requesting employment of a part-time graduate student outside his supervising department (and in an area unrelated to his academic program) should determine the number of hours for which the student is registered prior to contacting the Personnel Office regarding appointment of such students. This will enable the Personnel Office staff to provide proper salary rate information.

Maximum Hours Per Week Permitted To Work	Graduate Hours Registered for
0 -	15 - 100.00%
3 - 7.50%	14 - 91.66%
6 - 15.00%	13 - 83.33%
10 - 25.00%	12 - 75.00%
13 - 32.50%	11 - 66.66%
16 - 40.00%	10 - 58.33%
20 - 50.00%	9 - 50.00%
23 - 57.50%	8 - 41.66%
26 - 65.00%	7 - 33.33%
30 - 75.00%	6 - 25.00%
33 - 82.50%	5 - 16.66%
36 - 90.00%	4 - 8.33%
40*- 100.00%	3 - 0.00%
40*- 100.00%	2 - 0.00%
40*- 100.00%	1 - 0.00%

*Present medical school policy permits an employee to enroll in a 3 semester hour course without reduction in pay.

STUDENT DEBTS

The University of Texas Medical School at San Antonio is not responsible for debts contracted by individual students or by student organizations. On the other hand the University expects all students and student organizations to conduct themselves honorably in all commercial transactions. The school will not assume the role of a collection agency for organizations, firms, and persons to whom students may owe bills, nor will the University adjudicate

disputes between students and creditors over the existence or the amounts of debts.

A student, however, is expected to discharge his contractual obligations. In the event of conduct on the part of a student clearly demonstrating flagrant disregard of his commercial obligations (refusal to pay or meet admitted debts or obligations will be thus construed), action will be taken appropriate to the age of the student.

In event of nonpayment to the school one or more actions may be taken: (1) barring readmission of the student, (2) withholding the student's grades and official transcript, and (3) withholding a degree to which the student would otherwise be entitled.

REQUIREMENTS AND REGULATIONS

A student enrolled in the Graduate Programs is subject to all established requirements and regulations. Exceptions to these rules and solutions to situations not covered by previously determined guidelines will be handled on an individual basis by the Graduate Faculty Executive Committee. At least once each semester, each student should confer with his graduate advisor about his progress, changes in the scheduling of classes, additional requirements, new regulations, and deadlines for graduation.

REGISTRATION

Each semester and summer session opens with a registration period during which the formal process of enrollment in the school should be completed. Usually one day is designated as the one for registration by graduate students. Materials and instructions are obtained from the graduate advisors of the various departments. Registration is directed by the Office of the Registrar, located in the Office of Academic Development. Although there is no penalty for late registration, it should be completed on the day set aside for that purpose if possible.

Before registration the student should obtain a Course Card from his Graduate Advisor and procure his written approval for enrollment in the courses selected. If any of the courses are to be given in a department other than his major one, he must obtain approval of his registration for each course either from the instructor or from the graduate advisor of the department involved. All students currently enrolled should forward Course Cards to the Office of the Registrar at least one week prior to registration day so all the necessary forms may be prepared for each student and ready for his prompt enrollment by the Registrar on the day of registration. New students are not required to forward forms in advance, although they should have conferred with their advisors regarding their academic programs and decided upon the courses to be taken before the day of registration.

It is a requirement that a student be registered for the semester in which he graduates. If a candidate has completed the last requirements for a degree, including submission of a thesis or dissertation, and needs to register only for the purpose of having his degree conferred, he may register in absentia. This is the only purpose for which a student may register in absentia.

If a student is registering only for the final credit-hours (final semester or summer session) in preparation of a thesis or dissertation, the tuition may be reduced to \$12.00 for residents of Texas and \$50.00 for nonresidents (U.S. citizens and foreign students).

RESIDENCE

Each graduate student must spend a minimum of two semesters, or the equivalent, in residence at The University of Texas Medical School at San Antonio. No student may receive advice on preparation of his

thesis or dissertation from a member of the graduate faculty without being registered. Registration for the master's thesis course or for the doctoral dissertation course must cover a longer period than one semester, and, if necessary, may cover multiple semesters.

AUDIT ENROLLMENT (Course Visitor)

Permission to audit a course or courses is sometimes granted. Auditing conveys only the privilege of observing and not of handing in papers or taking part in class discussions, laboratory exercises or field work. No grade is given and no credit is recorded. All students should obtain permission to attend a course from the instructor and non-students must obtain the approval of the Registrar in addition. Space must be available in the class. A fee of \$5 is required each semester or summer session to audit one or more courses provided the individual is a regularly enrolled student or employee of The University of Texas. The fee will be \$25 if the individual is not a regularly enrolled student.

FILE NUMBER

The student's matriculation and file number is his social security number. This number is the primary means of identifying the student's official academic record. Prospective students who do not have social security numbers should apply for one in time to include it on their applications for admission as graduate students.

GRADES AND GRADE-POINT AVERAGES

Credit is given in the Graduate Programs for the grades A, B and C. No credit is allowed for courses in which grades of D or F are earned; however, all grades are included in the computation of the grade point average.

Grade points are assigned as follows: A, denoting excellent scholarship, 4 points; B, good, 3 points; C, fair, 2 points; D, pass, 1 point; and F, failure, 0. Credit for courses in which a D or F is received may be obtained only by repetition of the course; if a course is repeated, the last grade becomes the official grade for the course.

To be awarded a graduate degree a minimum grade point average of 3.00 (B) must be attained in all course work included in the student's academic program other than Research, Thesis, Dissertation or Supervised Teaching; every semester hour of C must be balanced by one of A. In all courses in research and in teaching the grades of S (satisfactory) and U (unsatisfactory) will be used.

Other symbols used in reporting the standing of students in their classes are: P - final examination postponed; R - reexamination to be allowed; Q - course dropped while receiving a passing grade - no penalty; WP - withdrawal from course passing; WF - withdrawal from course failing; and X - incomplete. An X is used to report cases where the student has not completed all of the assignments before conclusion of the course; if the required work is completed within two years the symbol X may be converted into a letter grade by the instructor.

CREDITS

The unit of measure for credit purposes in graduate work is the semester hour. Courses which meet for 3 hours of lecture a week have a credit value of three semester hours for one semester or six semester hours for two semesters. A course with 2 hours of lecture and 6 hours of laboratory work a week has a credit value of four semester hours.

In fulfilling the requirements for the M.A. degree, not more than a total of twelve of the credit hours awarded for work in Research, Thesis, Seminar and Supervised Teaching may be included in the 30 semester hour minimum.

A specific number of semester hours has not been set for attainment of the Doctor of Philosophy degree; however, all doctoral work is carefully reviewed by the Graduate Faculty Executive Committee.

CONTINUATION IN THE GRADUATE PROGRAMS

Continuation in the Graduate Programs is dependent upon two requirements: (1) satisfactory progress in absolving any admission deficiencies that were imposed and (2) maintenance of a B average for all upper-division and graduate courses taken in a given semester or summer session. If a student should make less than a B average, he will be warned by the graduate advisor in his major area that continuation of his program is in jeopardy. During the next semester or summer session he must be able to maintain a B average in the courses for which he is registered, or he will be subject to dismissal at the end of this period; while on probation he will not be given permission by the Graduate Program Administrator to drop any of these courses. The graduate student who has been dismissed may be readmitted for further graduate study by petition from the Committee on Graduate Studies of his major area. The request will be considered by the Graduate Faculty Executive Committee, and according to the recommended action, will be approved or disapproved by the Graduate Program Administrator.

A satisfactory rate of progress toward the degree is required throughout the student's enrollment. A Committee on Graduate Studies, with the Graduate Program Administrator's consent, may terminate a

student's enrollment at any time if his rate of progress is not satisfactory.

PROFICIENCY IN ENGLISH

All graduate students are expected to be proficient in the use of English. They are counted upon to write well organized and lucid papers and examinations and to speak fluently and grammatically. Their proficiency in written and spoken English will be checked in their courses and in their contacts with faculty members.

FOREIGN LANGUAGE REQUIREMENT

There is no general requirement for demonstration of proficiency in one or more foreign languages before admission to candidacy for a doctoral degree. In modern baccalaureate curricula, training in foreign languages is being stressed as an important component of a liberal education. During graduate work, the reading of scientific papers in foreign journals and the acquiring of an ability to converse with fellow scientists from various parts of the world will be encouraged. If knowledge of certain foreign languages is deemed essential for training in a specific program, students may be asked to pass an examination to demonstrate an adequate experience with a particular language or languages. In addition to making it possible for the graduate student to obtain in-depth knowledge and training in a specific area of his choice, the aim of the Graduate Programs is to provide him with the opportunity to broaden his background in the humanities as well as in the social and natural sciences.

SUPERVISED TEACHING

Practice teaching in his major area under the close supervision of one or more faculty members is required of each doctoral student. Up to 6 semester hours of credit toward a degree may be granted to the

student who completes at least two semesters of teaching. In order to receive this credit the student must enroll in a special graduate course in supervised teaching in his area and receive a grade of S.

COURSE LOAD

The minimal full-time course load for a semester is considered twelve semester hours. The maximum load is individually determined by the student's graduate advisor and the Committee on Graduate Studies involved. If a student is employed as a teaching assistant, research assistant, or tutor, his course load may be reduced correspondingly.

ADDING COURSES

During the first two weeks following registration, a student may add a course(s) by obtaining the approval of the instructor(s) and the graduate advisor(s) concerned. After the 12th day of classes, a student must also secure permission from the Registrar.

DROPPING COURSES

During the first half of a course, a student maintaining a B average may drop a course without penalty provided he is passing the course at the time and has the approval of the instructor, his Graduate Advisor and the Graduate Program Administrator; the symbol Q will be recorded for the course by the Registrar. However, if a student is on probation because he has been unable to maintain a 3.0 point overall average, he will not be allowed to drop a course. In case of illness, a student may drop a course without penalty at any time before the beginning of examinations provided he obtains consent of the Graduate Program Administrator.

Withdrawal denotes dropping of all courses and withdrawal from school before the end of a semester or summer session. The student should consult both his Graduate Advisor and the Graduate Program Administrator concerning withdrawal procedures applicable to his situation. This is particularly advisable if at some future time the student wishes to return to one of the components of The University of Texas or to transfer to another university. The symbol WP or WF will be recorded for each course depending upon the student's standing on the last day of enrollment.

TIME LIMITS

Doctor's degree: No official limit has been placed on the time for acquiring a Ph.D. degree. Course work taken more than six years prior to the end of the candidate's final semester may not be accepted for credit toward the degree; if not, the courses must be repeated or replaced with substitutes approved by the Committee on Graduate Studies. All doctoral work is subject to review by the Graduate Faculty Executive Committee and the Graduate Program Administrator.

Master's degree: All requirements for a master's degree must be completed within one six-year period. In special cases, upon recommendation of the Committee on Graduate Studies, the Graduate Program Administrator may consider reinstatement.

GRADUATION UNDER A PARTICULAR CATALOGUE

Since requirements for degrees in the Graduate Programs may be changed from year to year the student is bound only by the guidelines established at the time of his admission within a six year limit. However, he may elect to fulfill the requirements developed at a subsequent date.

The degree of Doctor of Philosophy and the degree of Master of Arts are awarded upon the satisfactory completion of prescribed academic programs including the preparation and defense of an acceptable dissertation or thesis, recommendation of the Graduate Faculty Executive Committee and certification by the Board of Regents. Degrees are awarded at the end of the fall semester, the spring semester and the summer session, but formal public ceremonies are held only at the end of the spring semester.

All doctoral degrees are conferred individually, so as many doctoral candidates as possible should be present for the ceremony of investiture at the commencement at the end of the spring semester. All candidates, including those actually awarded degrees at the end of the summer session or the fall semester, are urged to attend the formal ceremonies.

SUPPLEMENTAL INFORMATION

For supplemental information concerning the graduate programs, communicate with the chairman or the graduate advisor of the appropriate department. For inquiries regarding general requirements and regulations, write or call the Office of Graduate and Sponsored Programs. For advice about the graduate programs at other components of The University of Texas System, consult the current catalogue of the particular school.

SEQUENTIAL PROCEDURES

DOCTOR OF PHILOSOPHY DEGREE

Phase I. From admission through successful completion of the qualifying examination and admission to candidacy.

1. As soon as possible after admission to a Program the appropriate Committee on Graduate Studies shall appoint a faculty

advisor for the student. The advisor's function is to serve as the "contact person" on the faculty who shall see to it that course requirements, and any contingencies of admission are satisfied by the candidate. This advisor may or may not ultimately be the supervising professor.

2. After the student has been in the Program for a year and has met most of the course requirements, the Committee on Graduate Studies shall construct and administer a qualifying examination. This examination may be written, oral, or both. The make-up of the Examination Committee shall be left to the Committee on Graduate Studies, but one member must be outside of the student's program area. The results of examination will be documented and forwarded to the Graduate Faculty Executive Committee by the faculty advisor after approval by the Committee on Graduate Studies as criteria for his qualification for candidacy. When the student has been admitted to candidacy by the Graduate Program Administrator on recommendation of the Graduate Faculty Executive Committee, he will enter Phase II of his program.

Phase II. Successful completion of the qualifying examination through awarding of the degree.

1. As soon as possible after admission to candidacy the Supervising Professor shall be appointed. Under usual circumstances this faculty member should be selected by the student with the guidance and approval of the Committee on Graduate Studies. The appointment would be made after obtaining the consent of the individual selected.

2. On the recommendation of the student and the Supervising Professor, the Committee on Graduate Studies shall consider names of at least four other members for the Supervising Committee. Two of the members shall be faculty members in the program and two shall be from a supporting area. An additional member of the committee should be from outside this institution. The names of the proposed Supervising Committee with the Supervising Professor as chairman shall be submitted to the Graduate Faculty Executive Committee for approval.
3. The Chairman of the Graduate Faculty Executive Committee on receiving the recommendations from the Committee on Graduate Studies may appoint an ad hoc committee of 3 faculty members to review the composition of the Supervising Committee and submit its recommendations for approval or disapproval to the Graduate Faculty Executive Committee. In the event the Graduate Faculty Executive Committee does not approve the proposed Supervising Committee, this fact along with any recommendations shall be returned to the Committee on Graduate Studies for reconsideration and resubmission.
4. At an early date, the Supervising Professor will convene the Supervising Committee to discuss with the candidate the problem he has chosen for his dissertation, and proposals for its solution. At appropriate intervals thereafter a progress report (written or oral) shall be presented so that the current status of the work may be evaluated. In this way, it is hoped to keep the Committee fully informed and to provide them an "input" into the problem early in the training program.

The Final Oral Examination will be conducted by the Supervising Committee with the Supervising Professor as Chairman. All interested persons may attend and have the right to question the candidate. Only the Supervising Committee will vote on the examination; more than one dissenting vote will indicate failure. In the event of a failing performance, the Committee will decide upon the appropriateness of another exam.

NOTE Students may not register for dissertation until admitted to candidacy. Registration for the doctoral dissertation must cover a longer period than 1 semester. (If degree is to be received in June, candidate must register for dissertation the previous September.)

MASTER OF ARTS DEGREE

The Master of Arts degree need not be a stepping stone to the Ph.D. degree; a qualified applicant without the degree may be admitted directly to a doctoral program.

The procedures for the M.A. degree will follow closely those outlined for the Ph.D. degree. The Committee on Graduate Studies may or may not elect to examine the student prior to recommending admission to candidacy and selection of the Supervising Committee. The student generally within the 1st year will select his Supervising Professor. With the advice of the Committee on Graduate Studies, he will select a Supervising Committee composed of two additional faculty members from his major and one from a minor area. The Final Oral Examination may include general aspects of the student's major and minor fields of study in addition to the defense of the thesis. The Supervising Committee will notify the Graduate Faculty Executive Committee when the candidate has

completed satisfactorily his academic program, his final oral examination, and a thesis. Upon their approval, the Graduate Program Administrator will recommend the awarding of a Master of Arts degree to the candidate.

Since requirements for degrees in the Graduate Programs may change, the student is bound only by the requirements in force at the time of his admission, with a six-year limit; however, the student may elect to fulfill subsequently approved requirements. Also, it is important for the student to remember that any academic course, whether taken at The University of Texas Medical School at San Antonio or elsewhere, completed more than six years prior to the end of his final semester may not be accepted for credit even if it appears on the official academic program; it may be necessary to repeat the course or replace it with a substitute approved by the Committee on Graduate Studies.

When the candidate predicts he will graduate, the following items must be completed according to the schedule:

a. Diploma Name Card*

Ph.D. - Not later than end of first 2 weeks of semester

M.A. - Not later than end of first 2 weeks of semester

b. Dissertation or Thesis Data Sheet*

Ph.D. - Not later than 75 days prior to graduation

M.A. - Not later than 60 days prior to graduation

c. Copy of Approval Page[†] for Dissertation or Thesis

Ph.D. - Not later than 45 days prior to graduation

M.A. - Not later than 30 days prior to graduation

d. Request for Final Oral*, Vita[†] (one copy**); Abstract[†] of Dissertation or Thesis (12 copies**)

Ph.D. - Not later than 45 days prior to graduation

M.A. - Not later than 30 days prior to graduation

e. Date of Final Oral

Ph.D. - Not later than 30 days prior to graduation

M.A. - Not later than 20 days prior to graduation

- f. Report of Final Oral*
- Ph.D. - Not later than 25 days prior to graduation
- M.A. - Not later than 15 days prior to graduation
- g. Dissertation⁺ (3 copies**) or Thesis⁺ (3 copies**)
- Ph.D. - Not later than 25 days prior to graduation
- M.A. - Not later than 15 days prior to graduation
- h. List of Schools attended during Graduate Studies*
- Ph.D. - Not later than 25 days prior to graduation
- M.A. - Not later than 15 days prior to graduation
- i. Microfilm Agreement*
- Ph.D. - Not later than 25 days prior to graduation
- j. Copyright Disclaimer*
- Ph.D. - Not later than 25 days prior to graduation
- k. Survey of Earned Doctorate*
- Ph.D. - Not later than 25 days prior to graduation
- l. Receipts from Cashier for publication of abstract,
microfilming and/or binding
- Ph.D. - Not later than 25 days prior to graduation
- M.A. - Not later than 15 days prior to graduation

* Forms available in Office of Graduate and Sponsored Programs

** Preferably multilith or Copy Center copies (acceptable as originals)

+ See "Instructions for Preparation of Dissertation and Abstract"

OBJECTIVES OF GRADUATE WORK

PROGRAM IN ANATOMY

This program is designed to provide the student with academic research, technical, experimental, and teaching backgrounds which will enable him to qualify for a rewarding career of teaching and research in medical, dental, nursing or other allied health fields.

PROGRAMS OF GRADUATE WORK

The courses required depend on the goal of each individual student, but in general each student will obtain a knowledge of gross and microscopic anatomy, with emphasis on the functional aspects of

anatomy. The faculty's research interest is focused upon three main areas: cell biology, neurosciences, and reproductive biology. A sufficiently large variety of courses is available on this campus to suit the program of each individual student. Students acquire teaching experience by assisting with instruction to medical and dental students. Students working for the Doctor of Philosophy degree must pass departmental preliminary examinations before admission to candidacy.

Requirements for the Master of Arts degree specify 30 semester hours of work including a thesis. For the Doctor of Philosophy degree, a dissertation based on the results of a research project is required.

PHYSICAL FACILITIES

Each faculty member maintains a laboratory containing specialized equipment useful for research in his area of interest. In addition, the department maintains special all-purpose facilities including: two electron microscopes and all necessary equipment for ultrastructural studies, a radioautography laboratory, photographic dark rooms, radioisotope counting facilities, ultracentrifuges, spectrophotometers and other apparatus necessary for modern metabolic, anatomical and chemical studies; complete micro and macro-cinematography facilities, animal quarters which house a number of invertebrate, amphibian, and mammalian species. The school maintains a machine shop as well as computer and visual aid support groups. The medical school library contains a comprehensive collection of journals and books in the anatomical and other biological fields. Ample study and laboratory space is available for a substantial number of anatomy graduate students.

Department Chairman - Professor Edward G. Rennels

Professor Alexis L. Burton

Tissue culture cinematography and experimental cytology.

Professor John J. Ghidoni**

Cardiovascular pathology.

Professor William H. Knisely**

Pulmonary circulation, medical education.

Professor Clarence W. McNutt

Genetics, mammalian development.

Professor Edward G. Rennels

Reproductive biology, endocrinology.

Professor Jim L. Story**

Experimental neurosurgery.

Associate Professor Erle K. Adrian, Jr.

Cellular responses to neural damage, history of anatomy.

Associate Professor Ivan L. Cameron

Cell biology, cell reproduction and differentiation.

Associate Professor Gene L. Colborn

Ultrastructure and morphogenesis of the cardiovascular system.

Associate Professor Nobuyoshi Hagino

Reproductive biology, neuroendocrinology.

Associate Professor Ronald D. Huffman**

Neurophysiology and neuropharmacology.

Associate Professor Frederick T. Lynd**

Comparative gross and microscopic anatomy.

Associate Professor Russel J. Reiter

Neuroendocrinology.

Associate Professor Vick F. Williams

Ultrastructure of nervous tissue.

Associate Professor William B. Winborn

Cellular ultrastructure.

Assistant Professor Hou-Chi Dung

Neurological mutations of the mouse;
ultrastructure of lymphoid tissues.

Assistant Professor Marshall L. Houston

Embryology and placentology

Assistant Professor Martin A. Kramen**

Developmental biology.

Assistant Professor William W. Morgan

Diurnal rhythms, control of cell reproduction.

Graduate Advisor - Ivan L. Cameron

** Staff member with joint appointment in Department of Anatomy and major appointment in another department.

+ Vice Chancellor for Health Affairs, The University of Texas System.

SPECIFIC DEGREE REQUIREMENTS

Master of Arts Degree. For the Master of Arts degree

in the Department of Anatomy a minimum of 30

semester hours of graduate credit is required. A thesis

and final thesis examination are required for the

Master's degree in this department.

Doctor of Philosophy Degree. Graduate study

programs leading to the degree of Doctor of

Philosophy will depend upon the student, the area of

specialization which culminates in the dissertation,

and the professional career for which the student is

preparing. Most graduate programs will include the

basic courses in Anatomy, including Gross Anatomy,

Embryology, Cell Biology, Neuroscience, and

Microscopic Anatomy. The program will include

additional graduate courses in Anatomy and related

sciences.

The individual program leading to the Doctor of

Philosophy degree will be planned by the student and

his graduate advisor. This plan is to be approved by

the Committee on Graduate Studies. Admission to a

graduate program is not to be interpreted as admission to candidacy for the Doctor of Philosophy degree. Advancement to doctoral candidacy requires approval of the Committee on Graduate Studies and is based upon the total record of his performance in the graduate courses and successful completion of preliminary qualification examinations. These examinations may be oral, written or a combination of both. The preliminary examination will not be given until the student has completed a foreign language requirement.

A reasonable schedule for students entering the Ph.D. program with Bachelor's or Master's degrees is as follows: (1) By the end of the first year, qualification in a foreign language, completion of most basic course requirements, and completion of most of the course work of supporting areas. During the first year the students will take, unless they have successfully completed an acceptable course in another institution, the following courses within the medical school curriculum: (a) Anatomy (Gross Human), (b) Biochemistry, (c) Cell Biology, (d) Microanatomy, (e) Neuroscience, (f) Embryology. A student may elect or be required to take other basic science courses. (2) By the end of the second year, he should complete course requirements in the major and supporting areas. He should also progress in his area of research and complete his qualifying examination for advancement to doctoral candidacy. (3) By the end of the third or fourth year, he should have completed his research and dissertation, and should have taken his final examination on his dissertation and related areas.

The above suggested schedule is variable and depends on the individual student. In general, 3 or 4 years are required to complete the Doctor of Philosophy program.

GRADUATE COURSES

The course offerings in the Graduate Programs are contingent upon adequate student enrollment

Microscopic Anatomy 4 semester hrs.

Lectures, conferences, demonstrations and laboratory work on the microscopic anatomy of the tissues and organs of the human body. Laboratories deal with microscopic slides of the body's tissues. \$8 lab fee

Gross Anatomy 9 semester hrs.

Lectures, conferences, and laboratory work covering the entire human body. Four students are assigned to a cadaver and each student is given a disarticulated skeleton for study. Laboratory study is supplemented with permanent dissections, prosections and roentgenograms.

Staff \$8 lab fee

Medical Embryology 2 semester hrs.

A lecture series on human development covering normal and abnormal aspects.

Staff

Neuroscience 5 semester hrs.

Lectures, conferences, laboratories deal with the study of the anatomy and function of the brain and spinal cord.

Presentation of neurological cases. Primarily designed for medical students and taught by interdisciplinary task force from the Departments of Anatomy, Pharmacology, Physical Medicine and Rehabilitation, Physiology and Medicine and Surgery.

Task Force Staff \$8 lab fee

Cell Biology 4 semester hrs.

The course meets on two afternoons per week and includes both lecture material and laboratory work. At least five students must register for the course.

Prerequisite: Introductory Biochemistry course or advanced standing in cellular and molecular biology.

I. L. Cameron and W. W. Morgan

Electron Microscopy 3 semester hrs.

Introductory techniques; selected readings on techniques and

instrumentation accompanied by practical application in all aspects of tissue preparation, microscopy and photography.

Research on selected or assigned problems.

W. B. Winborn

Ultrastructural Studies of the Nervous System 3 semester hrs.

Individual research projects to study various aspects of the ultrastructure of the nervous system, particularly cellular reactions to injury. Maximum students during period: two. Prerequisite: Electron Microscopy course must precede this course.

V. Williams

Research in Biological Rhythms 3 semester hrs.

Individual research projects to study rhythmic variations in tissue (particularly brain) levels of biogenic amines or nucleic acids in mammals. Emphasis will be placed on the relationship of controlled lighting regimes to these biological rhythms. Maximum students during the period: two.

Prerequisite: Cell Biology course.

W. W. Morgan

Cellular and Molecular Renewal in the Body 3 semester hrs.

Lectures and laboratory projects deal with cell proliferation kinetics, radioisotopes as metabolic tracers, histological slide preparation, radioautography and photomicroscopy. Required project and report.

Prerequisite: Microscopic Anatomy course.

I. L. Cameron and E. K. Adrian

Endocrinology of Reproduction 4 semester hrs.

Lectures and seminars on anatomy, biochemistry and physiology of pituitary, gonads, and neural structures regulating reproductive processes. Laboratory exercises on alternate weeks will demonstrate procedures and techniques and enable students to explore certain areas of current research. Maximum students during period: eight.

Prerequisite: Microscopic Anatomy course and an introduction to biochemistry.

N. Hagino, M. Kramen, R. J. Reiter, and E. G. Rennels

Research in Neuroendocrinology 3 semester hrs.

Literature search and specific research projects designed to

acquaint the individual with the neuroendocrine mechanisms of reproductive physiology. Studies will deal primarily with the influences of the external environment and the pineal gland on the regulation of pituitary gonadotropins.

Prerequisite: Neuroscience course.

R. J. Reiter

Anatomy of the Newborn 3 semester hrs.

Detailed gross dissection and study of the newborn with special emphasis on developmental origins, features and relationships differing from the adult. Laboratory and conference. Maximum students during period: six

Prerequisite: Gross Anatomy Course.

C. W. McNutt and V. Williams

Regional Anatomy of the Back
Head and Neck 3 semester hrs.

Students will participate in lectures, dissections, presentations of prosected material and teaching in the first year gross anatomy laboratory. Maximum students during period: eight.

Prerequisite: Gross Anatomy course.

E. K. Adrian

Regional Anatomy 3 semester hrs.

Study of anatomy associated with one of the medical specialties such as orthopedics, obstetrics and gynecology, etc., detailed dissection, selective reading and consultation with clinical staff. Laboratory and conference. Maximum students during period: six

Prerequisite: Gross Anatomy course.

C. W. McNutt, V. Williams, G. Colborn, H. C. Lung, and W. W. Morgan

Cytophysiology of the
Pituitary Gland 2 semester hrs.

Selected readings and laboratory exercises related to the dynamic aspects of gonadotrophic hormone secretion; active participation in current studies of follicle stimulating hormone and luteinizing hormone control mechanisms.

Prerequisite: Microscopic Anatomy course.

E. G. Rennels

Physiology and Pharmacology
of Synaptic Transmission 3 semester hrs.

A study of the physiology and pharmacology of synaptic

function in the spinal cord and selected areas of the brain.

Prerequisite: Neuroscience course.

R. D. Huffman

Medical Genetics 2 semester hrs.

Lectures and conferences on the application of genetic principles to development of functions or diseases of man.

C. W. McNutt

Scientific Cinematography
applied to Basic Sciences 3 semester hrs.

Theory and practice of the production of motion picture films for research or teaching purposes. This program includes a large variety of projects from which each student can select one related to his own interest. Besides regular cinematography, many other techniques (cinemacrography, cinemicrography, animation, time-lapse, editing, sound, etc.) are included. Maximum students during period: two

A. L. Burton

Histopathologic Studies of
Mutant Mice 3 semester hrs.

Microscopic slides and electron micrographs of various organs from normal and neurological mutants will be studied.

Maximum students during period: two

Prerequisite: Microscopic Anatomy course

H. C. Dung

Supervised Teaching in
Anatomical Sciences 2 or 3 semester hrs.

Participation in the teaching program of the first year medical curriculum. Semester hours variable depending on time spent in teaching.

Staff

History of Anatomy 1 semester hr.

Lectures, assigned readings, and student presentations dealing with the great anatomists and their discoveries.

E. K. Adrian

Anatomy Seminars 1 semester hr.

Attendance and participation in the regularly scheduled Anatomy Department seminar series. In general, each student will be required to present one seminar session.

Staff

Research in Anatomy 3 or 4 semester hrs.

Individual research projects conducted under the direction of a student's supervising professor. Semester hours to be arranged between supervising professor and student.

Staff

Thesis (Credit to be arranged)

For Master of Arts candidates. Instruction on and preparation of the thesis.

Staff

Dissertation (Credit to be arranged)

Prerequisite: Admission to candidacy for Doctor of Philosophy degree.

Staff

OBJECTIVES OF GRADUATE WORK

PROGRAM IN BIOCHEMISTRY

To offer the student advanced training in the field of Biochemistry so that he shall be able to pursue a career of independent research and teaching.

PROGRAMS OF GRADUATE WORK

In the initial phase of the program the student takes formal courses in several areas of Biochemistry as well as in the cognate areas such as Chemistry, Microbiology, Physiology or Biophysics. This aspect of the training is designed to strengthen and broaden the student's general knowledge in the biochemical sciences. Also during this period the student participates in a biochemical techniques course which familiarizes him with current techniques and instruments routinely used in this field. Students participate in seminar courses the purpose of which is to introduce them to the current literature. These seminars attempt to teach the student a critical approach to the literature.

In the latter part of the training period the student chooses an area of biochemical interest and pursues a research problem leading to a dissertation.

Throughout this period when the student has a

reasonable mastery of the subject matter he participates in the teaching activities of the department. Initially this is limited to supervised teaching in conference sections for medical and dental students and eventually he progresses to presentation of formal lectures to these students. Major emphasis is on the Doctor of Philosophy degree program, although a limited number of Master of Arts degree candidates are considered.

PHYSICAL FACILITIES

The Department of Biochemistry contains approximately 12,000 sq ft of well equipped laboratory space. The following major pieces of equipment are available: Preparative ultracentrifuges; analytical ultracentrifuge; scintillation counters, low background Geiger counter; radioactive strip scanners; Cary recording spectrophotometers, Gilford spectrophotometers; all types of chromatography apparatus; high and low voltage paper electrophoresis; sonicators, French press, and other types of homogenizers for breaking cells, gas chromatography equipment; fraction collectors; cold rooms. All of the routine glassware found in a modern biochemistry laboratory is available.

FACULTY

Department Chairman - Professor Armand J. Guarino

Professor Alan D. Elbein

Biosynthesis and metabolism of complex carbohydrates including cell walls, glycoproteins, and various storage compounds. Mechanism of protein secretion. Interrelations between enzymes and various other macromolecules.

Professor Armand J. Guarino

Structure and biosynthesis of the cell walls of fungi.

Professor Caspar W. Hiatt**

Molecular photobiology; microbial biophysics.

Professor Jonathan N. Nishimura

Mechanisms of enzyme action, with particular emphasis on transphosphorylation reactions in which coenzyme A participates.

Associate Professor Roy W. Keenan

The chemistry and metabolism of the lipids, particularly the phospholipids, sphingolipids and investigation of the factors which govern the biosynthesis and degradation of these compounds.

Associate Professor John C. Lee

Studies on structure and function of ribonucleic acids and ribosomes. Hemoglobin differentiation and its relationship to hemoglobinopathies.

Associate Professor Robert A. Weisman

Cellular differentiation in acanthamoeba; during starvation a cellulose-containing cyst is formed. Studies in progress include: changes of structure and function of RNA polymerase during encystment and its relation to the synthesis of new RNA; the control of cellulose synthesizing enzymes; and the role of adenylyl cyclase and cyclic AMP in encystment.

Assistant Professor Marvin L. Chatkoff**

Molecular actions of progesterone and estrogen in the endometrium of the human uterus. Interactions of steroids with chromatin and their effect on the control of transcription and DNA replication. Induced changes in the secondary and tertiary structure of DNA.

Assistant Professor Jack E. Jackson **

Assistant Professor Allan W. Rees

Physical biochemistry of macromolecules and structure and configuration of chromatin,

particularly on how the folding or coiling of DNA strands is controlled by the chromosomal proteins. Other research interests include centrifugal and viscometric methodology and the comparison of structure and physical properties of lysozymes.

Assistant Professor David M. Shapiro

The metabolic control of DNA and RNA synthesis in both bacterial viruses and mammalian systems.

Adjunct Professor Dale A. Clarke

Atherosclerosis, its biochemical mechanism, including the metabolism of the lipoproteins and their component lipids, particularly cholesterol.

Adjunct Associate Professor Thomas W. Culp

Lipid metabolism particularly with tissues associated with the eye.

Adjunct Associate Professor Leon Milewich

The chemistry and metabolism of steroid hormones.

Adjunct Associate Professor Robert Purdy

Adjunct Assistant Professor Gary Johnston

Graduate Advisor - Alan D. Elbein

**Staff member with joint appointment in Department of Biochemistry and major appointment in another department.

SPECIFIC DEGREE REQUIREMENTS

Students pursuing the Doctor of Philosophy degree will be expected to acquire a comprehensive knowledge of biochemistry, which will be determined by a qualifying examination. Students will also be expected to demonstrate proficiency in at least one cognate area. This may be in Chemistry, Microbiology, Physiology, Biophysics or some other suitable field. A dissertation, which represents an original contribution to the field of biochemistry and

which is publishable in a reputable, scholarly journal, will be required of all candidates for the degree of Doctor of Philosophy.

The requirements for the Master of Arts degree will be less rigorous than those for the Ph.D. degree.

These requirements may be met by a thesis or an approved substitute.

GRADUATE COURSES

The course offerings in the Graduate Programs are contingent upon adequate student enrollment.

Cell and Molecular Biology 8 semester hrs.

This course is designed primarily for medical students and is taught by an interdisciplinary task force from the Departments of Anatomy, Biochemistry, Physiology and Medicine, and Microbiology. Topics included are: intracellular anatomy; the chemistry and metabolism of carbohydrates, lipids, amino acids, proteins, and nucleic acids; transport, nerve and muscle activity. The course content is fairly typical of a general survey course in this area.

Prerequisite: General chemistry, Organic chemistry and Physics.

Task Force Staff

Dental Biochemistry 6 semester hrs.

This course is primarily designed as a survey course for dental students. On a limited basis, a small number of graduate students may be accommodated. The course is basically a brief survey of the metabolism of the major classes of foodstuffs. A portion of the course deals with matters relating to the biochemistry of the oral cavity.

Prerequisite: Organic Chemistry, biology and permission of instructor.

Nishimura and Staff

Biochemical Techniques (Credit to be arranged)

An introduction to the use of modern biochemical techniques and instruments, as well as a presentation of the principles governing their operation. Topics such as ultracentrifugation, high voltage electrophoresis, protein fractionation, laboratory methods in enzymology, various types of chromatography will

be included.

Prerequisite: Survey course in the area of molecular biology.

Biochemistry staff

ADVANCED BIOCHEMISTRY

Graduate students in the Biochemistry Program

would normally take three to eight of the following

courses:

Nucleic Acid Metabolism 1 semester hr.
3 hours per week for 5 weeks

The specific metabolism of nucleic acids is discussed with particular emphasis on the regulation and mechanism of DNA and RNA biosynthesis. A major emphasis will be placed on the experimental methodology employed in this field.

Prerequisite: A survey course in the area of molecular biology.

Shapiro

Biochemistry of Development 1 semester hr.
3 hours per week for 5 weeks

A critical evaluation of biochemical and molecular events during the development of selected biological systems with emphasis on microbial and animal differentiation.

Prerequisite: A survey course in the area of molecular biology.

Lee, Weisman

Enzymology 2 semester hrs.
3 hours per week for 10 weeks

A study of the structure, regulation, and mechanism of action of enzymes. Particular emphasis will be placed on the kinetics of enzymatic reactions, structure-function relationships and the nature of allosteric interactions.

Prerequisite: A survey course in the area of molecular biology.

Nishimura, Weisman

Biochemistry of the

Amino Acids 1 semester hr.
3 hours per week for 5 weeks

A study of the chemistry and metabolism of amino acids. Particular emphasis will be placed on their biosynthesis in plants and animals as well as their metabolic fates other than incorporation into proteins.

Prerequisite: A survey course in the area of molecular biology.

Guarino, Nishimura

3 hours per week for 5 weeks

The theory of physical properties of biological macromolecules, including viscometry, sedimentation velocity and equilibrium, buoyant density banding, associating systems, light scattering, and optical rotatory dispersion and circular dichroism

Prerequisite: A survey course in the area of molecular biology.

Rees

Current Aspects of Protein Biosynthesis 1 semester hr.

3 hours per week for 5 weeks

Consideration of the mechanism of the biosynthesis of proteins, its regulation and enzymology; the relation of RNA metabolism to protein synthesis; the structure, synthesis and function of the ribosomes; and the genetic code.

Prerequisite: A survey course in the area of molecular biology.

Lee

Biochemistry of the Carbohydrates 1 semester hr.

A study of the metabolism of various monosaccharides including the biosynthesis, transformation, and degradation of these compounds. Discussions on the synthesis and turnover of various carbohydrate macromolecules such as glycoproteins and mucopolysaccharides will also be presented.

Prerequisite: A survey course in the area of molecular biology.

Elbein

Lipid Biochemistry 1 semester hr.

3 hours per week for 5 weeks

This course is not intended as a survey of lipid biochemistry, but rather consists of a critical examination of selected topics in lipid chemistry and metabolism. The subjects selected for consideration will depend mainly on the current research activities in the field at the time the course is presented.

Prerequisite: A survey course in the area of molecular biology.

Keenan

Biochemistry Seminar 1 semester hr.

Selected topics of current interest will be presented. These shall be largely student presentations. The purpose of the

seminar is to give the student experience in presenting a scientific paper in thinking critically of the work he is presenting, and in defending the scientific presentation before a group of scientists.

Prerequisite: A survey course in the area of molecular biology.

Staff

Research in Biochemistry (Credit to be arranged)

Students will pursue independent research ultimately culminating in a Dissertation. This original research shall be under the direction of a faculty advisor.

Prerequisite: Extensive advanced training in biochemistry.

Staff

Supervised Teaching 1 semester hr.

Teaching medical or dental biochemistry under close supervision of instructors. Management of small conference teaching groups as well as formal lecture presentations will be included.

Prerequisite: Advanced training in biochemistry.

Staff

Thesis (Credit to be arranged)

Preparation of Master's Thesis.

Prerequisite: Advanced training in biochemistry.

Staff

Dissertation (Credit to be arranged)

Preparation of Doctoral Dissertation.

Prerequisite: Advanced training in biochemistry.

Staff

OBJECTIVES OF GRADUATE WORK

PROGRAM IN BIOPHYSICS

The graduate program in Biophysics is an interdisciplinary offering from the Departments of Bioengineering, Physiology and Medicine, Laboratory Animal Medicine, and Radiology. Its purpose is to train highly qualified candidates in specialized biophysical sciences which are essential to the education of medical students.

PROGRAMS OF GRADUATE WORK

Subjects in this category include biomathematics,

statistics, medical electronics, medical physics, health physics, radioisotope techniques, computer technology, and certain portions of both cellular physiology and biophysical chemistry. Candidates successfully completing this program will be prepared for careers in teaching and research in medical schools.

PHYSICAL FACILITIES

Facilities for the program in Biophysics are distributed among the several participating departments and include a total of 15 or more research laboratory modules. The Department of Bioengineering operates an Instrument Shop, with facilities for machine work, glassblowing and electronics fabrication. An EAI 580 Analog Computer is available for use by graduate students. The Scientific Computer Center has an IBM 1130 Computer with 8K core, a card reader and paper tape reader for input, and a line printer and digital plotter for output. This computer can also serve as a terminal for batch processing of data by a remote IBM 7094 Computer.

Facilities of the Department of Radiology are excellent for students working with ionizing radiation, and a cooperative agreement in effect with the School of Aerospace Medicine, Brooks Air Force Base, permits qualified students to use the superb radiological equipment at that institution.

Laboratories of the Department of Physiology and Medicine are well equipped for the study of membrane biophysics and ionic transport phenomena. Modern facilities for animal experimentation, including histopathological examination of specimens, are provided by the Department of Laboratory Animal Medicine.

FACULTY

Program Chairman - Professor Caspar W. Hiatt

Professor Leon Cander

Mechanisms and processes in pulmonary
function.

Professor Richard G. Domey

Design of experiments, assessment and
evaluation of performance.

Professor Marvin Forland

Renal regulation of acid-base and electrolyte
balance.

Professor Benjamin D. Fremming

Reproductive physiology and experimental
surgery.

Professor Caspar W. Hiatt*

Molecular photobiology; microbial biophysics.

Professor Elliot Weser

Intestinal sugar transport.

Professor Peter Zanca

Radiobiology, new applications of physical
techniques in diagnostic radiology, and nuclear
medicine.

Adjunct Associate Professor James V. Benedict

Mathematical modeling, medical electronics.

Associate Professor Gerard J. Celitans

Positrons, gamma-ray spectroscopy; bioelectric
phenomena; mathematical biophysics.

Associate Professor Charles Levinson

Cellular metabolism, ion transport.

Associate Professor Frederick T. Lynd*

Veterinary pathology.

Associate Professor William L. McGuire

Molecular biology of carcinogenesis,
experimental endocrinology.

Associate Professor Robert E. McMasters

Neural basis of vestibular function.

Adjunct Associate Professor Robert P. Popovich

Biomedical engineering, mass transfer, transport phenomena.

Associate Professor Robert G. Wagganer

X-ray spectra measurements, information content of diagnostic X-rays, dosimetry of ionizing radiation, new techniques in nuclear medicine, and bioelectric measurements.

Associate Professor Robert J. Young

Veterinary radiology and orthopaedics.

Assistant Professor Terry M. Mikiten

Synaptic transmission; biophysics of excitable membranes.

Assistant Professor Thomas C. Smith

Membrane biophysics, membrane transport.

Instructor James W. Winstel

Mathematical Models.

Fellow Hee K. Yoo

Biophysiological control theory, biomedical instrumentation, artificial organs.

Graduate Advisor - Gerard J. Celitans

*Staff member with major appointment in a department belonging to the Program in Biophysics and a joint appointment in a department not belonging to the Program in Biophysics.

SPECIFIC DEGREE REQUIREMENTS

Candidates for admission to this program must have a B.S. or B.A. degree in science or engineering and must have completed the following undergraduate courses:

Biology. One year of General Biology

Chemistry. One year of Organic Chemistry and Physical Chemistry.

Physics. One year of General Physics, requiring Calculus.

Mathematics. One year of Calculus.

Candidates for the M.A. degree must fulfill the general requirements for this degree at The University

of Texas Medical School at San Antonio and, in addition, must submit an acceptable thesis describing an original investigation of a subject in the field of Biophysics.

The Ph.D. degree will require submission of an acceptable dissertation describing a productive, original research project in Biophysics. Candidates for the Ph.D. degree must demonstrate a reading proficiency in at least one foreign language.

GRADUATE COURSES

The course offerings in the Graduate Programs are contingent upon adequate student enrollment.

Cell and Molecular Biology 8 semester hrs.

This course is designed primarily for medical students and is taught by an interdisciplinary task force from the Departments of Anatomy, Biochemistry, Physiology and Medicine, and Microbiology. Topics included are: intracellular anatomy; the chemistry and metabolism of carbohydrates, lipids, amino acids, proteins, and nucleic acids, transport, nerve and muscle activity. The course content is fairly typical of a general survey course in this area.

Prerequisite: General chemistry, Organic chemistry and Physics.

Task Force Staff

Principles of Physiology 6 semester hrs.

Lectures and laboratories - 2 semesters

A study of the basic concepts of physiology with particular emphasis on a systematic exposition of mammalian physiology.

Prerequisite: Cell and Molecular Biology, or consent of instructors.

Introductory Biostatistics 3 semester hrs.

Lectures only

Introduction to probability and basic statistics through simple analysis of variance and multiple correlation.

Prerequisite: Consent of instructors.

General Biophysics I and II 6 semester hrs.

Lectures and occasional laboratory - 2 semesters

Biophysics and the living cell; flow of energy and thermodynamics of the living cell; information theory as applied to biology, structure of matter, chemical bonds and intermolecular interactions; structure of water in biological materials; structure of amino acids, proteins and nucleic acids; structure of polysaccharides and lipids; structure of viruses, cells and membranes, methods of determining sizes, shapes and spatial relations of molecules including ultracentrifugation, X-ray analysis, absorption spectroscopy, ionizing radiation and microscopy, biophysical models of muscle, nerve and eye; the physics of dynamic cellular processes.

Prerequisite: Consent of instructors.

Nuclear Physics and Chemistry I and II 6 semester hrs.

Mostly lectures with occasional laboratory - 2 semesters

Nuclear structure - fundamental particles, binding energy and nuclear forces, models of nuclear structure. Nuclear reactions and radionuclides - nuclear bombardment reactions, particle accelerations, neutron sources; nuclear instability and transformations, natural occurrence of radioactivity. Properties of nuclear radiations - alpha and beta particles, neutrons, X-ray and gamma-radiation. Quantitative aspects of radioactive decay and radiation dosimetry. Interaction of radiation with matter - absorption and energy loss; radiation chemistry.

Prerequisite: Consent of instructors.

Radiation Instrumentation 3 semester hrs.

Lectures and laboratories - 2 hrs. lecture, 1 hr. laboratory

Radiation detectors; ionization, scintillation and solid-state devices. Modular instrumentation units, elements of pulse circuits, multichannel analyzers; X-ray generators, cyclotrons, neutron piles.

Prerequisite: Nuclear Physics and Chemistry, or consent of instructors.

RADIATION BIOPHYSICS 3 semester hrs.
Lectures only

The interaction of radiation with matter including biological macromolecules at the atomic and molecular level; excitation and ionization of biological molecules; dE/dx for charged

particles and linear-energy-transfer (LET) for commonly encountered radiation, yield of chemical species following radiation of aqueous solutions; the effect of ionizing radiation on biological macromolecules including bacteria and animal cells grown in vitro; theoretical basis of quality factors and relative biological effect (RBE).

Prerequisite: General Biophysics, or consent of instructors.

Membrane Biophysics 3 semester hrs.

Lectures only

Application of the laws and methods of physics to membrane characteristics and function.

Prerequisite: General Biophysics, or consent of instructors.

Mathematical Physiology 3 semester hrs.

Lectures only

Techniques of the mathematical approach to descriptions of physiological processes. Fundamental concepts in calculus and differential equations will be developed and applied to data analysis.

Prerequisite: Consent of instructors.

Biostatistics I and II 6 semester hrs.

Lectures only - 2 semesters

Multiple correlation and regression, including stepwise, inductive and canonical correlation; analysis of variance, analysis of complex variance, non-normal and non-parametric statistics forms. Emphasis on research design.

Prerequisite: Introductory Biostatistics or consent of instructors.

Analog Simulation 3 semester hrs.

Lectures and laboratories - 2 hrs. lecture, 1 hr. laboratory

Analog computer programming, including iterative techniques and application of the analog computer to simulation of biological system.

Prerequisite: Consent of instructors.

Scientific Computer Programming 3 semester hrs.

Lectures and laboratories - 2 hrs. lecture, 1 hr. laboratory

Introduction to Fortran and its use in the solution of scientific problems on the digital computer.

Prerequisite: Consent of instructors.

Lectures only

Principles of quantum, mechanics and quantum processes in physics, chemistry and biology.

Prerequisite: Consent of instructors.

Biophysical Electronics

3 semester hrs.

Mostly lectures with occasional laboratory

Outline of basic theory of electronic circuitry and review of electronic instrumentation used in biophysics and medicine; principles of electricity and magnetism, electronic circuits, detectors and transducers will be stressed.

Prerequisite: Consent of instructors.

Radiation Biology

3 semester hrs.

Mostly lectures with occasional laboratory

The effect of radiation on biological macromolecules; the effect of radiation at the cellular level; direct and indirect effect of radiation; target theory, survival curves and the interpretation of survival data; the effect of radiation at the tissue and organ level; the effect of whole body irradiation; modification of radiation response including oxygen effect and use of sulfhydryl compounds; the theoretical basis of radiation therapy, the genetic effects of population exposure to radiation, theoretical basis of radiation protection laws.

Prerequisite: Cellular and Molecular Biology, or consent of instructors.

Principles of Health Physics

3 semester hrs.

Lectures only

Basic fundamentals of protection against both ionizing and non-ionizing radiation. Principles of radiation measurements and instrumentation. Laws and regulations concerning exposure to radiation, concept of permissible dose and determination of maximum permissible dose, dosimetry of external radiation fields and internal emitters. Calculation of shielding requirements and protective measures.

Prerequisite: Consent of instructors.

Endocrine Physiology

3 semester hrs.

Lectures only

Study of hormones and the regulation of target organ function in integrated biological systems.

Prerequisite: Principles of Physiology, or consent of instructors.

Molecular Basis of Hormone Action 2 semester hrs.

Lectures only

Mechanisms by which hormones regulate protein synthesis, gene transcription and cell division.

Prerequisite: Principles of Physiology, or consent of instructors.

Physiology of Nerve and Muscle 3 semester hrs.

Lectures only

Historical concepts and contemporary views of neural systems as well as mechanisms of muscle and nerve functions.

Prerequisite: Principles of Physiology, or consent of instructors.

Isotopes in Biology and Medicine 3 semester hrs.

Mostly lectures with occasional laboratory (Not for Biophysics students).

Radiation detection methods; statistics; assay of isotopes; preparation of tagged compounds; use of isotopes in animals; use of isotopes in humans, radiation protection.

Prerequisite: Consent of instructors.

Molecular Photobiology 3 semester hrs.

Lectures only

Effects of ultraviolet and visible light upon cells, viruses, nucleic acids, and protein, reactivation phenomena and their implications in molecular biology.

Prerequisite: Consent of instructors.

Physical and Theoretical

Basis of Radiology 3 semester hrs.

Lectures only

The electromagnetic spectrum, information theory, statistics; instrumentation and electronics of radiology; production of X-rays, interaction of X-rays with matter; detection of X-rays; imaging devices; contrast and contrast-to-fluctuation ratio; thermography and ultrasound.

Prerequisite: Consent of instructor.

Radiation Dosimetry 6 semester hrs.

Mostly lectures with occasional laboratory - 2 semesters

Measurement and characterization of ionizing radiation fields.

Dosimetry of ionizing radiation. Characterization and

measurement of radiation distributions in vivo from external

beams, implants, internal applicators, and internal isotopes.

Prerequisite: Consent of instructors.

Selected Topics in Cell

Physiology 2 semester hrs.

Lectures only

Current views of cellular control mechanisms, including

membrane phenomena and organelle function.

Prerequisite: Principles of Physiology, or consent of

instructors.

Biological Control Systems 3 semester hrs.

Lectures only

Introduction to modern control theory and applications to

biological systems.

Prerequisite: Analog simulation, or consent of instructors.

Biology and Experimental Methods

of Animal Models 3 semester hrs.

2 lectures and one 2 hr. laboratory

Comparative structure and function of commonly used

laboratory animal models; experiments involving animals;

forensic responsibilities of investigators; animal experimental

design. Maximum number of students: 12. Preference will be

given to students admitted to Graduate Programs.

Prerequisite: Consent of instructors.

Experimental and Developmental Surgical Methods

of Animal Models 2 semester hrs.

2 lectures and one 3-hr laboratory

Fundamentals of experimental surgery; principles of

developmental research procedures; methods of viable organ

and tissue preparations.

Prerequisite: Consent of instructors.

Mathematical Preparation for

Biology 3 semester hrs.

Lectures only (Not for Biophysics students)

Powers and logarithms; dimensions; graphical interpretation of data; exponential processes; transport phenomena-random walk processes, diffusion and sedimentation; systems theory-principles of control systems; positive and negative feedback; mathematical models and their uses.

Prerequisite: College Algebra

Seminar in Biophysics 2 semester hrs.

Selected topics in various aspects of biophysics.

Supervised Teaching 1 semester hr.

Presentation of lectures and management of conference sections under close supervision of instructors.

Research in Biophysics 6 semester hrs.

Independent, original research under the direction of a faculty advisor.

Thesis (Credit to be arranged)

Required of students admitted to candidacy for the M.A. degree.

Dissertation (Credit to be arranged)

Required of students admitted to candidacy for the Ph.D. degree.

OBJECTIVES OF GRADUATE WORK

The graduate program has been designed to provide broad coverage of the role of microbiology and immunology in the present-day biomedical world and in fundamental areas of biology before specialization. The objective of the training is to develop students as competent scientists with the proficiency in one particular area of microbiology or immunology that will qualify him for a professional career in teaching, research, or scientific administration.

PROGRAM IN
MICROBIOLOGY

PROGRAMS OF GRADUATE WORK

The Department offers wide-ranging opportunities for graduate work. The areas of specialization include medical bacteriology, virology, mycology,

parasitology, and immunology. On-going research extends from purely basic problems with focus at the molecular level to clinical investigations involving animals and humans. The programs are designed to give ample opportunity for learning and demonstration of independent initiative.

In addition to the active program for training graduate students, the Department is responsible for teaching of both medical and dental students. Some of the staff are deeply involved in the professional direction of diagnostic work for clinic and hospital patients. The research problems are both clinically-oriented and fundamental investigations in microbiology and immunology. This combination contributes to the development and successful operation of an effective, modern department.

PHYSICAL FACILITIES

The Department occupies about 9,000 square feet of space; some 7,500 provide 12 well-equipped research laboratories and an electron microscopy suite including complete darkroom facilities with high resolution electron microscope, vacuum evaporator, Nikon comparator, microtome and knife maker. Major equipment includes a Model I analytical centrifuge, ultracentrifuges, numerous spectrophotometers, liquid scintillation counters, Ribicell fractionator, high voltage electrophoresis equipment, lyophilizer and Warburg respirometer. Adequate facilities are available for growth of large quantities of bacteria, fungi and viruses; cold rooms provide space both for experimental work at reduced temperatures and for storage; and limited space in ultra low freezers and liquid nitrogen banks is available to staff and students. The Departmental library contains 200 relevant reference books and texts, and subscribes to most of the major journals covering related areas of interest.

FACULTY

Department Chairman - Professor Alexis Shelokov

Professor William T. Kniker**

Immunopathology: In vivo and in vitro mechanisms of immunologically induced diseases; detection and characterization of immune reactants; mediators of inflammation; pharmacologic blocking of mediator systems. The biologic significance of vascular basement membranes, and their soluble products. Isolation and characterization of group and strain specific microbial antigens.

Professor Alexis Shelokov

Medical virology and epidemiology.

Professor Kendall O. Smith

Latent and masked viruses; the possible role of viruses in chronic degenerative disease in humans.

Professor Robert L. Taylor

Medical mycology - the immunogens of pathogenic fungi and their role in humoral and cell-mediated responses in experimental models. Broad aspects of the laboratory diagnosis and epidemiology of mycoses. Ecology of pathogenic fungi.

Professor Elizabeth Verder⁺

Medical bacteriology.

Associate Professor Alain J. Marengo-Rowe**

Hematology.

Associate Professor Daniel L. Rosenstein**

Immunohematology.

Associate Professor Daniel E. Thor*

Cellular immunology and the production of mediator substances. Clinical and basic immunology and in vitro models of cell-mediated immunity. Carcinogens and cell associated antigens of tumor immunity. Applied immunology in clinical infectious disease and pathology.

Associate Professor Dennis W. Trent

Biochemistry and genetics of Group B arbovirus replication with emphasis on the synthesis of viral RNA and proteins, morphogenesis and virion ultrastructure. Antigenic analysis of group-reactive and type-specific viral proteins.

Adjunct Associate Professor James R. Walker

Cell replication and microbial genetics

Assistant Professor Jerry J. Eller**

The pathogenesis and immunology of myxovirus infections, particularly surface immunity.

Assistant Professor Thomas W. Huber **

Diagnostic microbiology, relation of L-forms to chronic human infection; mycoplasma.

Assistant Professor Frederick A. Rommel**

Investigations of action of complement, invertebrate immunity and marine toxins.

Assistant Professor Barbara A. Sanford

Immunology, bacteriology.

Instructor Warren D. Gehle**

Biophysical virology and biomathematics.

Instructor Melvin D. Trousdale

Electron microscopy: rapid identification of certain clinically important viruses. Studies on the ultrastructure and morphogenesis of the group B arboviruses.

Graduate Advisor - Robert L. Taylor

*Staff member with major appointment in the Department of Microbiology and a joint appointment in another department.

**Staff member with joint appointment in Department of Microbiology and major appointment in another department.

+ Visiting Professor.

SPECIFIC DEGREE REQUIREMENTS

Special emphasis is placed on flexibility in graduate

degree programs in microbiology and immunology so they may relate to the interests, purposes and needs of the individual students. Opportunity is provided to develop deep insight into the fundamental principles and advanced theories of the disciplines through course work, independent study and participation in discussion groups. In general, three to four years are required to complete a doctoral program.

The preliminary training for students will be expected to include an adequate background in biology, chemistry, physics and mathematics. Past academic performance should be of sufficiently high quality to warrant further progress in scholarly activity.

Potential for future academic and career success as well as for leadership will be considered.

For the Master of Arts degree a minimum of 30 semester hours including the research for the thesis is required.

Of these, from six to nine hours of work at graduate level in another area or areas comprise the minor field.

Although mastery of a well-chosen and meaningful program of graduate courses is required, no specific number of semester hours has been set for attainment of the Ph.D. degree. The basis on which the degree is awarded is the candidate's demonstration of acquired skills and knowledge in his selected field of specialization and his ability to do independent work in the area. The Committee on Graduate Studies will guide the program of study and recommend him for candidacy for the Ph.D. degree on the basis of a qualifying examination and performance in graduate courses.

Following admission to candidacy by the Graduate Program Administrator, a carefully selected Supervising Committee reviews the student's choice of research problem for the dissertation and proposals for its solution. Upon completion of the dissertation and its acceptance by the Committee, the Final Oral

Examination on the dissertation and related areas is scheduled.

Participation in graduate courses will be largely restricted to those individuals who are enrolled in a graduate program. Special students, with the necessary prerequisites, may register for credit in courses by obtaining the approval of both the instructor and the graduate advisor. Under certain circumstances, a limited number of visitors may be allowed to participate in a segment of a course but regular attendance will not be permitted. Graduate students and members of the faculty may be admitted to classes as auditors through consent of the instructor.

GRADUATE COURSES

The course offerings in the Graduate Programs are contingent upon adequate student enrollment.

Medical Microbiology

Lectures only - 4 semester hrs.; tutorials and laboratory - 1 semester hr.

Emphasis on medical aspects of immunology, virology, bacteriology, mycology and parasitology. The first year medical school course will serve as an integral part of the course and the base for additional study.

Prerequisite: Consent of instructors.

Clinical Epidemiology and

Preventive Medicine (Credit to be arranged)
Up to 54 hrs. lectures and conferences

Principles of epidemiology and disease prevention with emphasis on chronic and infectious diseases.

Prerequisite: Medical Microbiology, consent of instructors.

General Microbiology 3 semester hrs.
Lectures, laboratory

Classification, organization, structure, function, physiology, nutrition, metabolism, genetics and other properties of major groups of microorganisms.

Prerequisite: General biology, biochemistry.

2 semesters

Principles and application of key methods and techniques for the operation of diagnostic microbiology and immunology laboratories. To include cell and organ culture, purification methodology, electron microscopy and ultrastructure, fluorescence microscopy and spectroscopy and use of radioisotopes. Primarily for students studying for M.A.

Prerequisite: Medical Microbiology and consent of instructor..

Techniques in Microbiology

2 semester hrs. credit for each session. Any number of sections may be taken for credit but no section may be repeated for credit.

Principles and application of key techniques employed in microbiology and immunology.

- a. Cell and organ culture
- b. Purification methodology (ultracentrifugation, chromatography, etc.)
- c. Electron microscopy and ultrastructure
- d. Fluorescence microscopy and spectroscopy
- e. Use of radioisotopes

Primarily for students studying for Ph.D.

Prerequisite: Consent of instructors.

Microbial Genetics

3 semester hrs.

Lectures, conferences and laboratory

Study of genetics of microbial organisms including biosynthesis of macromolecules, mechanisms of transfer of genetic information, mutation and mutagenesis, and regulatory mechanisms.

Prerequisite: Microbiology, biochemistry (or elementary genetics) and consent of instructors.

Introduction to Immunology

3 semester hrs.

Lectures only

Study of immune-response - both cellular and antibody-mediated immune reactions: (1) anatomy and physiology of the immune response; (2) initiation of antibody formation; (3) control of antibody formation; (4) unresponsiveness; (5) antigen-antibody union; (6) antigen-antibody reaction; (7) lymphocyte activation and mediators; (8) transplantation immunology; (9) complement;

(10) antibody-mediated immunopathology; (11) tumor immunology; (12) cell-mediated immunopathology.

Prerequisite: Consent of instructors.

ADVANCED IMMUNOLOGY

1. Experimental Immunology and

Immunopathology 4 semester hrs.

2 hrs. lecture, 6 hrs. laboratory per week

Experimental methods used in vitro and in vivo for study of the antibody-mediated and the lymphocyte-mediated systems of immunity. Where possible, in vitro correlated will be compared with in vivo examples of the various immunologic mechanisms and associated immunopathologic conditions.

Prerequisite: Introduction to Immunology or consent of instructors.

2. Immunobiology

3 semester hrs.

Lectures only

Phylogeny and ontogeny of the immune response; immunobiology of lymphocytes, plasma cells and macrophages; immunosuppression, immunologic reconstitution and immunopathology; inflammation, immunity and infection; immunologic and clinical aspects of delayed type hypersensitivity; cell-mediated immunity to infection, tumors and transplantation; disorders of the immune system and immunodeficiency diseases.

Prerequisite: Introduction to Immunology or consent of instructors.

3. Immunochemistry

3 semester hrs.

Lectures only

Immunogenicity and antigenicity; antibody formation, structure and function; complement activity; enzymatic reactions; immunogenetics; physico-chemical studies of immunoglobulins.

Prerequisite: Biochemistry and Introduction to Immunology or consent of the instructor.

Introduction to Virology

4 semester hrs.

2 hrs. lecture, 6 hrs. laboratory per week

Lectures: Basic non-medical general virology with emphasis on molecular and cellular biology of animal viruses (physical and chemical properties, biology of multiplication, effects on host

cells, genetics, interferon). Laboratory: Experimental work to emphasize the basic properties of viruses and their interactions with host cells.

Prerequisite: General biology, microbiology, biochemistry and consent of instructors.

ADVANCED VIROLOGY

1. Oncogenic, Slow and Latent Viruses 2 semester hrs.

Lectures only

Current concepts and research in the area of oncogenic, "slow", latent and masked viruses. Studies would cover the historical developments in this field as well as the biology, structure and biochemical characteristics of selected "model" agents.

Prerequisite: Introduction to virology, biochemistry, and the consent of the instructor.

2. Molecular Basis of Animal Virology 2 semester hrs.

Lectures only

Current concepts in the biochemistry of viral replication and cellular response to infection.

Prerequisite: Introduction to virology, biochemistry, and the consent of the instructor.

Either or both sections may be taken for credit.

Parasitic Protozoology and

Helminthology 3 semester hrs.

Study of the biology of the parasites and methods of identification, as well as epidemiology, prevention and control of parasitic diseases.

Prerequisite: Medical Microbiology.

Pathogenic Fungi 3 semester hrs.

2 hrs. lecture, 3 hrs. laboratory per week.

Study of the fungi which cause disease in man and animals with emphasis on diagnosis, epidemiology, and public health significance.

Prerequisite: Consent of instructor.

Clinical and Diagnostic Microbiology

2 semester hrs. credit for each section.

Methods and techniques for laboratory diagnosis of disease caused by microbial agents:

1. Bacteriology
2. Virology
3. Parasitology

Prerequisite: Consent of instructors.

Special Problems (Credit to be arranged)

Course provides an opportunity for the student to engage in a special research project or to develop a proficiency in the use of certain laboratory methods.

Prerequisite: Consent of instructors.

Research

Research may be conducted in bacteriology, virology, mycology, parasitology and immunology. The amount of credit will vary with the work performed.

Seminar 1 semester hr.

Presentation and discussion of original and published research work by students and staff and occasionally by outside scientists. All students enrolled in Graduate Program in Microbiology are requested to attend.

Supervised Teaching 2 to 3 semester hrs.

Teaching under the close supervision of instructors as laboratory assistants and as leaders in tutorial or review sessions. The more advanced students may present formal lectures in the classrooms or lead discussions in the laboratory.

Prerequisite: Consent of chairman of department.

Thesis (Credit to be arranged)

Prerequisite: Admission to candidacy for Master of Arts degree.

Dissertation (Credit to be arranged)

Prerequisite: Admission to candidacy for Ph.D. degree.

The graduate program in Pharmacology is designed to provide the student with the academic, technical, and experimental background to enable him to qualify as a professional pharmacologist. " A pharmacologist is one who is devoted to the discovery, testing and perfecting of drugs and the study of the way in which they act" (A Career in Pharmacology, ASPET). The objective of the training program is to give the student the broad background in the basic medical sciences (Anatomy, Biochemistry, Physiology, and Pharmacology) necessary for his success in academic and experimental pharmacology. In addition, the student will receive in-depth training and experience in one or more particular areas of pharmacology. The training program will qualify him to pursue a career in teaching and research in medical schools or other health science professional schools, or to enter into a full-time research or administrative position in the drug industry or in the service of the Federal Government.

PROGRAMS OF GRADUATE WORK

The department has responsibilities for teaching in the medical and dental schools. In addition, some staff members are highly involved with drug abuse, environmental conditions, and other social ramifications of pharmacology. Other staff members are involved in the human aspects of pharmacology in the clinical wards while others are working to improve the teaching methods and techniques for medical students.

At the departmental level, several lines of scientific investigation are in progress. These include research at the molecular and cellular levels, as well as whole animal and organ study areas of pharmacology. Active investigations underway include the automatic nervous system, the central nervous system, and the cardiovascular system. Approaches used in these studies are physiological, chemical, biochemical,

behavioral, and biophysical.

Both graduate and medical students are offered a variety of approaches for learning and developing independent initiative and ability.

PHYSICAL FACILITIES

Facilities for graduate instruction and research include approximately 8,000 square feet of laboratory and office space in the Department of Pharmacology. Also within the department is a classroom used for conferences, seminars and classes. A graduate student area is provided with individual study cubicles.

Equipment available for research is sufficient for pursuance of almost any pharmacological investigation. This includes atomic absorption, fluorometric, ultraviolet and visible spectrophotometers; an ultracentrifuge; a flame photometer, pH meters; balances (both preparatory and analytical); recording equipment; and all the necessary accessories.

Within the department and available for use in graduate education are well over 1,000 volumes. New books are added continuously. In addition, most major journals in physiology and pharmacology are received on a subscription basis. The department also subscribes to Current Contents and Excerpta Medica abstracts in Pharmacology and Endocrinology.

FACULTY

Department Chairman - Professor Arthur H. Briggs

Professor Arthur H. Briggs

The experimental basis of essential hypertension; the investigation of the relaxing system in skeletal, cardiac and smooth muscles; and the cardiovascular effects of drugs of abuse.

Professor William B. Stavinoha

Neurochemistry of the cholinergic system and
biochemical toxicology.

Professor Howard L. Zauder**

The pharmacology of anesthetic agents.

Associate Professor Vernon S. Bishop

Neural control of the circulation and the
cardiovascular responses to various stresses.

Associate Professor Oliver Carrier, Jr.

The cardiovascular system: the role of
electrolytes, especially calcium, in vascular and
cardiac muscle function and how they are
influenced by drugs.

Associate Professor Ronald D. Huffman*

The electrophysiologic and pharmacologic
investigation of synaptic transmission in the
mammalian control of the nervous system.

Assistant Professor Kenneth Blum

The effects of drugs of abuse, particularly
alcohol and morphine, on the brain. The
underlying causes of drug dependence, and
research dealing with biochemical correlation
of behavior.

Assistant Professor Miguel A. Medina

The neurochemistry of biogenic amines, brain
histamine, brain intermediary metabolism, drug
interaction, and drug metabolism.

Assistant Professor Sandra Sabatini

Biochemical mechanism and metabolism of
prostaglandins, calcium transport in cardiac
muscle.

Instructor Barrie John Hodgson**

Association between ion movements, electrical
events and the actions of drugs on the isolated
rat myometrium.

Graduate Advisor - Oliver Carrier, Jr.

*Staff members with major appointment in the Department of
Pharmacology and a joint appointment in another department.

**Staff members with joint appointment in the Department of Pharmacology and major appointment in another department.

Following admission to candidacy by the Graduate Program Administrator, a carefully selected Supervising Committee reviews the student's choice of research problem for the dissertation and proposals for its solution. Upon completion of the dissertation and its acceptance by the Committee, the Final Oral Examination on the dissertation is scheduled.

Participation in graduate courses will be largely restricted to those individuals who are enrolled in a graduate program. Special students, with the necessary prerequisites, may register for credit in courses by obtaining the approval of both the instructor and the graduate advisor.

SPECIFIC DEGREE REQUIREMENTS

Special emphasis is placed on flexibility in the graduate degree program in Pharmacology so it may relate to the interests, purposes and needs of the individual students. Opportunity is provided to develop deep insight into the fundamental principles and advanced theories of the discipline through course work, independent study and participation in discussion groups. In general, four years are required to complete a doctoral program.

The preliminary training for students will be expected to include an adequate background in biology, chemistry, physics and mathematics. Past academic performance should be of sufficiently high quality to warrant further progress in scholarly activity.

Potential for future academic and career success as well as for leadership will be considered.

For the Master of Arts degree a minimum of 30 semester hours including the research for the thesis is required. Of these, from six to nine hours of work at graduate level in another area or areas comprise the minor field.

Although mastery of a well-chosen and meaningful program of graduate courses is required, no specific number of semester hours has been set for attainment of the Ph.D. degree. The basis on which the degree is awarded is the candidate's demonstration of acquired skills and knowledge in this selected field of specialization and his ability to do independent work in the area. The Committee on Graduate Studies will guide the program of study and recommend him for candidacy for the Ph.D. degree on the basis of a qualifying examination and performance in graduate courses.

GRADUATE COURSES

Medical Pharmacology 4 semester hrs.

2 hr. lectures and conferences - 2 semesters

This course consists of lectures and discussions covering the full spectrum of Medical Pharmacology. All classes of drugs which are of interest to the medical profession are studied.

The second year medical school course will serve as the nucleus of this course and form the basis for further study.

Prerequisite: A good understanding of mammalian physiology, consent of instructor.

Basic Pharmacology 4 semester hrs.

3 hr. lecture and 4 hr. laboratory

This course is designed to teach the basic principles and philosophy of Pharmacology and Toxicology. This will include molecular structure and chemical bonding and their relationship to drug action. It will also include absorption and distribution of drugs, site of drug action, mechanism of drug action and drug fate.

Prerequisite: Consent of instructor.

Basic Toxicology 3 semester hrs.

Lectures, laboratory exercise, and conferences

This course consists of lectures and laboratory exercises designed to give the student a fundamental knowledge of the principles of toxicological methods, mechanism of action of toxicological agents, and quantitative determinations of poisons.

Prerequisite: Medical Pharmacology, consent of instructor.

Autonomic Pharmacology 4 semester hrs.

3 hrs. lecture and 4 hrs. laboratory

This will be a series of lectures, laboratory work and library assignments designed to give the student an understanding of the concepts of chemical transmission and other physiological aspects of the autonomic nervous system. It will also include study of the drugs which are used because of their action on the autonomic nervous system as well as those drugs used for other therapeutic reasons but which still affect the system.

Prerequisite: Consent of instructor.

Cardiovascular Pharmacology 4 semester hrs.

2 hrs. lecture and 6 hrs. laboratory

This will be a study of the action of the drugs which act on the cardiovascular system. It will be designed to acquaint the student with the didactic material and the experimental approach to study of the cardiovascular system and the agents which affect it.

Prerequisite: Consent of instructor.

Neuropharmacology 4 semester hrs.

3 hrs. lecture and 4 hrs. laboratory

A detailed study of the relationship between drug action and central nervous system function. Laboratories will allow the student to observe some of these relationships for himself.

Prerequisite: Neuroscience.

Psychopharmacology 4 semester hrs.

2 hrs. lecture and 6 hrs. laboratory

The prime purpose of the course is to familiarize students with psychopharmacology by means of lectures, laboratory exercises, literature searches, seminars and group discussions. The students will critically evaluate the existing techniques available and explore the mechanism of action of psychotropic agents, such as general depressants, tranquilizers, antidepressants, etc.

Prerequisite: Consent of instructor.

Biochemical Pharmacology 4 semester hrs.

2 hrs. lecture and 6 hrs. laboratory

This course is designed to acquaint the student with biochemical techniques in pharmacology with particular emphasis on the action of drugs at the subcellular level.

Subjects include: drug metabolism, biogenic amines, enzyme kinetics, protein synthesis, intermediary metabolism.

Laboratory experiments are designed to demonstrate the effects of drugs on metabolites and biochemical pathways.

Prerequisite: Consent of instructor.

Endocrine Pharmacology 3 semester hrs.

3 hrs. lecture

A series of lectures and library assignments on the endocrine system and its relationship to drug action. This will include a detailed analysis of the endocrine side-effects of drugs used for therapeutic reasons not primarily endocrine, and of drugs used because of their direct endocrine function.

Prerequisite: Consent of instructor.

Renal Pharmacology 3 semester hrs.

3 hrs. lecture

A study of renal function and the effect of drugs on the renal system.

Prerequisite: Consent of instructor.

Lipid Pharmacology 3 semester hrs.

3 hrs. lecture

A study of lipids and how drugs affect their biochemistry.

Prerequisite: Consent of instructor.

Anesthetic Agents 3 semester hrs.

3 hrs. lecture

This course is designed to help the student learn in detail anesthetic agents, their mechanism of action, use and misuse.

Prerequisite: Consent of instructor.

Chemical Pharmacology 3 semester hrs.

3 hrs. lecture

A study of the relationship of chemical structure to drug action.

Prerequisite: Consent of instructor.

- Chemotherapy 3 semester hrs.
3 hrs. lecture
A series of lectures on the molecular basis of
chemotherapeutic agents.
Prerequisite: Consent of instructor.
- Clinical Pharmacology 6 semester hrs.
3 hrs. lecture and 6 hrs. in wards
Patients in the hospital wards will be presented and discussed
by the students. This will include therapeutics and toxic
manifestations of drugs.
Prerequisite: Consent of instructor.
- Biophysical Pharmacology 4 semester hrs.
3 hrs. lecture and 4 hrs. laboratory
This course is designed to acquaint the student with biophysical
techniques and concepts (radioisotopes, electronics,
mathematical analysis, etc.) as they apply to pharmacology.
Prerequisite: Consent of instructor.
- Biochemical Basis of
Drug Dependence 3 semester hrs.
3 hrs. lecture
The course will be designed to provide information with regard
to the biochemical mechanisms associated with drug dependence.
Nine categories of drugs with abuse potential, including
volatile anesthetic solvents (glue sniffing); ethyl alcohol;
hypnotics (barbiturates and non-barbiturates); minor
tranquilizers; narcotic analgesics; tobacco, stimulants
("speed"); cannabis sativa (marijuana); and hallucinogens
(psychedelics) will be critically evaluated.
Prerequisite: Consent of instructor.
- Pharmacological Literature
Evaluation 1 semester hr.
Students in this course will analyze and critically evaluate
current research literature in all areas of Pharmacology.
Prerequisite: Consent of instructor.

Pharmacology Techniques 4 semester hrs.

1 hr. lecture and 8 hrs. laboratory

Students will participate in short research projects in particular areas of pharmacology in order to learn the various techniques used.

Prerequisite: Consent of instructor.

Seminar in Pharmacology 1 semester hr.

The staff and students will conduct seminars on recent advances and research in Pharmacology.

Prerequisite: Consent of instructor.

Research (Hours to be arranged)

Thesis (Hours to be arranged)

Necessary for the Master's degree.

Dissertation (Hours to be arranged)

Necessary for the Doctor of Philosophy degree.

- *ADAMS, Russell L.; Assistant Professor (Psychology) Department of Psychiatry, B.B.A., 1962, Texas A&M University; M.A. 1964, Southwest Texas State College; Ph.D., 1967, The University of Texas at Austin.
- ADRIAN, Erie K., Jr.; Associate Professor, Department of Anatomy. B.A., 1958 Rice University; M.A. 1961, The University of Texas Medical Branch at Galveston; M.D. 1963, Harvard University; Ph.D., 1967, The University of Texas Medical Branch at Galveston.
- *AUNON, Jose; Instructor, Department of Radiology, M.D., 1961, University of Buenos Aires (Argentina).
- *AUST, J. Bradley; Professor and Chairman, Department of Surgery. M.D., 1949, School of Medicine, SUNY (Buffalo); M.S., 1957; Ph.D., 1958, Medical School, University of Minnesota.
- BENEDICT, James V.; Adjunct Associate Professor, Department of Bioengineering. B.S.M.E., 1963; M.S., 1966; Ph.D., 1969, Tulane University.
- BISHOP, Vernon S.; Associate Professor, Department of Pharmacology. B.S., 1958, Mississippi College; M.S. 1960, University of Kansas; Ph.D., 1964, University of Mississippi.
- BLUM, Kenneth; Assistant Professor, Department of Pharmacology. B.S., 1961, Columbia University; M.S. 1965, New Jersey College of Medicine; Ph.D., 1968, New York Medical College.
- BRIIGGS, Arthur H.; Professor and Chairman, Department of Pharmacology. B.A., 1952; M.D., 1956, Johns Hopkins University.
- *BURSTEIN, Alvin G.; Professor (Psychology) Department of Psychiatry. B.A., 1950; M.A., 1958; Ph.D., 1959, University of Chicago.
- BURTON, Alexis L.; Professor, Department of Anatomy. B.A. 1940, Institute Florimont (Switzerland); B.S. 1943, University of Geneva (Switzerland); M.D. 1946, University of Strasborg (France).
- CAMERON, Ivan L.; Associate Professor, Department of Anatomy. B.S. 1956, University of Redland; M. S. 1959, University of South Carolina; Ph.D. 1962, University of California (Los Angeles).
- CANDER, Leon; Professor, Department of Physiology and Medicine. M.D., 1951, Temple University.
- CARRIER, Oliver, Jr.; Associate Professor, Department of Pharmacology. B.S. 1960, College of Charleston; Ph.D., 1964, University of Mississippi.
- CELITANS, Gerard J.; Associate Professor, Department of Bioengineering. B.Sc., 1959; Ph.D., 1963, University of New South Wales (Australia).
- CHATKOFF, Marvin L.; Assistant Professor, Department of Obstetrics and Gynecology and Biochemistry. B.A., 1953, University of Oklahoma; M.S. 1965, University of Southern California; Ph.D., 1970, University of New Mexico.
- CLARK, Dale A.; Adjunct Professor, Department of Biochemistry. B.A., 1944, Hastings College; M.A., 1947, University of Colorado; Ph.D., 1950, University of Utah.
- COLBORN, Gene L.; Associate Professor, Department of Anatomy. B.A., 1957, Kentucky Christian College; B.S. 1962, Milligan College; M.S., 1964; Ph.D., 1968, Bowman Gray School of Medicine.
- *CRUZ, Anatolio B., Jr.; Associate Professor, Department of Surgery. A.A., 1952; M.D. 1957, University of the Philippines; M.S., 1963, University of Minnesota.

- CULP, Thomas William; Adjunct Associate Professor, Department of Biochemistry. B.A., 1958, North Texas State University; M.S., 1963 University of Houston; Ph.D., 1967, Texas A&M University.
- DOMEY, Richard G.; Professor (Biomedical Statistics), Department of Bioengineering, B.S., 1945, Boston University; Ed.M., 1946, Harvard University; Ed.D., 1954, University of Colorado.
- DUNG, Hou-Chi; Assistant Professor, Department of Anatomy. B.Sc., 1960, National Taiwan University (Taipei); Ph.D., 1969, University of Louisville School of Medicine (Kentucky).
- ELBEIN, Alan D.; Professor, Department of Biochemistry. A.B., 1954, Clark University; M.S. 1956, University of Arizona; Ph.D., 1960, Purdue University.
- ELLER, Jerry J.; Assistant Professor, Departments of Pediatrics and Microbiology. B.S., 1958, Davidson College (North Carolina); M.D., 1962, Medical School, University of North Carolina.
- FORLAND, Marvin; Professor, Department of Physiology and Medicine. A.B., 1954, Colgate University; M.D., 1958, Columbia University.
- FREMMING, Benjamin D.; Professor and Chairman, Department of Laboratory Animal Medicine. D.V.M., 1946, Colorado State University; M.P.H., 1952, University of California (Berkeley).
- *GATES, George A.; Associate Professor, Department of Surgery, M.D., 1959, University of Michigan.
- GENLE, Warren D.; Instructor, Department of Bioengineering; Research Associate, Department of Microbiology. B.S., 1964, Valparaiso University; M.S., 1969, University of Maryland.
- GHIDONI, John J.; Professor, Departments of Pathology and Anatomy. B.S., 1953, Fordham University; M.D., 1957, State University of New York, Downstate.
- *GIFFEN, Martin B.; Professor, Department of Psychiatry. A.B., 1941, University of Michigan; M.D., 1945, University of Pittsburgh.
- *COTTLIEB, A. Matthew; Instructor, Department of Pathology. B.S., 1948, Long Island University; M.A., 1949, New York University.
- *GREEN, David P.; Assistant Professor, Department of Surgery. B.A., 1958, Pomona College (California); M.D., 1962, Baylor University College of Medicine.
- *GROVER, Frederick L.; Assistant Professor, Department of Surgery. A.B., 1960; M.D. 1964, Duke University.
- GUARINO, Armand J.; Professor and Chairman, Department of Biochemistry. B.S., 1949, Harvard University; Ph.D., 1953, Tufts University.
- HAGINO, Nobuyoshi; Associate Professor, Department of Anatomy. B.S., 1952, Tokyo College of Science; M.D. 1967, Tokyo Jikei University School of Medicine.
- HIATT, Caspar W.; Professor and Chairman, Department of Bioengineering; Professor, Department of Biochemistry. B.S., 1942; Ph.D., 1948, Case Western Reserve University.
- HODGSON, Barrie J.; Instructor, Departments of Obstetrics & Gynecology and Pharmacology. B.S., 1968, London University; Ph.D., 1971, University of Alberta.
- HOUSTON, Marshall L.; Assistant Professor, Department of Anatomy. B.S., 1960, William Jewel College (Missouri); M.S., 1962; Ph.D., 1966, Kansas State University.
- *HOWARD, Michael; Associate Professor, Department of Radiology. M.D., 1963, The University of Texas Medical Branch at Galveston.

- HUBER, Thomas W.; Assistant Professor, Departments of Pathology and Microbiology. B.A.; 1964; Ph.D., 1968, The University of Texas at Austin.
- HUFFMAN, Ronald D.; Associate Professor, Departments of Pharmacology and Anatomy. B.S., 1959, Pennsylvania State University; M.S. 1961; Ph.D., 1967, Purdue University.
- JACKSON, Jack E.; Associate Professor, Department of Pathology; Assistant Professor, Department of Biochemistry. B.A., 1956, Michigan State University; M.S., 1960; Ph.D., 1964; M.D., 1965, Northwestern University School of Medicine.
- JOHNSTON, Gary Wayne; Adjunct Assistant Professor, Department of Biochemistry. B.S. 1965, Lamar State College of Technology; D.D.S., 1969, The University of Texas Dental Branch; M.S., 1971, University of Michigan.
- KEENAN, Roy W.; Associate Professor, Department of Biochemistry. B.Sc., 1955; M.S., 1957; Ph.D., 1960, Ohio State University.
- KNIKER, WILLIAM T.; Professor, Departments of Pediatrics and Microbiology. B.A., 1950, The University of Texas at Austin; M.D., 1953, The University of Texas Medical Branch at Galveston.
- KNISELY, William H.; Vice-Chancellor for Health Affairs, The University of Texas System; Professor, Department of Anatomy. B.S., 1950, University of Chicago, M.S., 1952; Ph.D., 1954, Medical College of South Carolina.
- *KOBOS, Joseph C.; Assistant Professor (Psychology), Department of Psychiatry. B.A., 1964, St Benedict's College (Kansas); M.S., 1967; Ph.D., 1970, Ohio State University.
- KRAMEN, Martin A.; Assistant Professor, Departments of Obstetrics & Gynecology and Anatomy. B.S., 1963; M.S. 1965, University of Illinois; Ph.D., 1969, Medical Center, University of Kansas.
- LBE, John C.; Associate Professor, Department of Biochemistry. B.A., 1961, Taylor University; M.Sc., 1964; Ph.D., 1967, Purdue University.
- *LEON, Robert L.; Professor and Chairman, Department of Psychiatry. M.D., 1948, University of Colorado.
- *LEVESON, James E.; Assistant Professor, Department of Pathology. B.Sc., 1958, Imperial College of Science and Technology (London); A.R.C.S., 1958, University of London; D.I.C. 1961; Ph.D., 1961, Imperial College of Science and Technology (London).
- LEVINSON, Charles, Associate Professor, Department of Physiology and Medicine. B.A., 1958, The University of Texas at Austin; M.A., 1960, Trinity University (San Antonio); Ph.D., 1964, Rutgers University.
- *LOGAN, Ben M.; Assistant Professor, Department of Radiology. M.D., 1954, Baylor University.
- LYND, Frederick T.; Associate Professor, Departments of Laboratory Animal Medicine and Anatomy. B.S., 1946, Washington State University; D.V.M., 1953, Oklahoma University; M.S., 1959, Texas A&M University.
- MARENGO-ROWE, Alain J.; Associate Professor, Departments of Pathology and Microbiology. M.B., 1961; B.S., 1961, University of London; L.R.C.P., 1961; M.R.C.S., 1961, London Hospital Medical College.
- *MARTIN, Harry W.; Professor (Sociology), Department of Psychiatry. A.B., 1949; M.A., 1950, University of Georgia; Ph.D., 1957, University of North Carolina (Chapel Hill).

- *McFEE, Arthur S.; Associate Professor, Department of Surgery. B.A., 1953; M.D., 1957, Harvard University; M.S., 1966; Ph.D., 1967, University of Minnesota.
- *McGILL, Henry C., Jr.; Professor, Department of Pathology. B.A., 1943; M.D.; 1946, Vanderbilt University.
- McGUIKE, William L.; Associate Professor, Department of Physiology and Medicine. A.B., 1958; M.D.; 1964, Case Western Reserve University.
- *McKENZIE, Richard E.; Assistant Professor (Psychology), Department of Psychiatry. Ph.B., 1948, University of Detroit; M.A., 1951, Wayne State University; Ph.D., 1957, University of Michigan.
- McMASTERS, Robert E.; Associate Professor (Neurology), Department of Physiology and Medicine. B.S., 1953, The University of Texas at El Paso; M.A., 1956; M.D., 1958, The University of Texas Medical Branch at Galveston.
- McNUTT, Clarence W.; Professor, Department of Anatomy. A.B., 1935, Henderson State Teachers College (Arkansas); M.S. 1938, Louisiana State University; Ph.D., 1941, Brown University.
- MEDINA, Miguel A.; Assistant Professor, Department of Pharmacology. B.S., 1957; M.S., 1963, St. Mary's University; Ph.D., 1967, The University of Texas Southwestern Medical School at Dallas.
- *MEYER, George G.; Professor, Department of Psychiatry. B.A., 1951, Johns Hopkins University; M.D., 1955, University of Chicago.
- MIKITTEN, Terry M.; Assistant Professor, Department of Physiology and Medicine. B.A., 1960, New York University; Ph.D., 1967, Albert Einstein College of Medicine.
- MILEWICH, Leon; Adjunct Associate Professor, Department of Biochemistry. B.S., 1956; M.S., 1958; D.Sc., 1959, University of Buenos Aires (Argentina).
- MORGAN, William W.; Assistant Professor, Department of Anatomy. B.S., 1966; Ph.D., 1970, Indiana State University.
- NISHIMURA, Jonathan S.; Professor, Department of Biochemistry. A.B., 1956; Ph.D., 1959, University of California (Berkeley).
- *PESTANA, Carlos; Associate Professor, Department of Surgery. B.S., 1952, Universidad Nacional Autonoma de Mexico; M.D. 1959, Escuela Nacional de Medicina de Mexico; Ph.D., 1965, University of Minnesota.
- POPOVICH, Robert P.; Adjunct Associate Professor, Department of Bioengineering. B.Sc., 1963, University of Wisconsin; M.S. 1965; Ph.D., 1970, University of Washington.
- PURDY, Robert Hyde; Adjunct Associate Professor, Department of Biochemistry. B.S., 1951, Yale University; Ph.D., 1960, Harvard University.
- *RADWIN, Howard M.; Professor, Department of Surgery. A.B., 1952, Princeton University; M.D. 1956, Columbia University.
- RENS, Allan W.; Assistant Professor, Department of Biochemistry. M.S., 1963; Ph.D., 1967, University of Cincinnati.
- RELTER, Russel J.; Associate Professor, Department of Anatomy. B. A., 1959, St John's University; M.S. 1961, Ph.D., 1964, W.F.C. Bowman Gray School of Medicine.
- RENNELS, Edward G.; Professor and Chairman, Department of Anatomy. B.Ed., 1947, East Illinois State Teachers College; M.A., 1948; Ph.D., 1950 Harvard University.
- *ROCKWOOD, Charles A., Jr.; Professor, Department of Surgery. B.A., 1951; M.S., 1952; M.D., 1956, University of Oklahoma.

- *ROGERS, Waid; Associate Professor, Department of Surgery. B.A., 1950, Yale University; M.D., 1957, Cornell University; M.S., 1966, University of Minnesota.
- ROMMEL, Frederick A.; Assistant Professor, Departments of Pediatrics and Microbiology. B.S., 1957; Ph.D., 1966, University of Miami (Florida).
- *ROOT, Harlan D.; Professor, Department of Surgery. A.B., 1950; M.D., 1953, Cornell University; Ph.D., 1961, University of Minnesota.
- ROSENSTEIN, Daniel L.; Associate Professor, Departments of Pathology and Microbiology. B.S., 1950, University of Oklahoma; M.D., 1954, Washington University (St Louis).
- SABATINI, Sandra; Assistant Professor, Department of Pharmacology. B.S. 1962, Millsaps College; M.S. 1966, Marquette University; Ph.D., 1968, University of Mississippi.
- SANFORD, Barbara A.; Assistant Professor, Department of Microbiology. B.A., 1962, Hardin-Simmons University; M.S., 1965; Ph.D., 1968, Baylor University.
- *SCHOENFELD, Lawrence; Assistant Professor (Psychology), Department of Psychiatry. B.A., 1963, Ohio Wesleyan University; M.A., 1965; Ph.D., 1967, University of Florida.
- SHAPIRO, David M.; Assistant Professor, Department of Biochemistry. B.S., 1951, Queens College; Ph.D., 1961 Johns Hopkins University.
- SHELOKOV, Alexis; Professor and Chairman, Department of Microbiology. B.A., 1943; M.D., 1947, Stanford University
- SMITH, Kendall O.; Professor, Department of Microbiology. B.A., 1951, George Washington University; M.S., 1957; Ph.D., 1959, University of North Carolina (Chapel Hill).
- SMITH, Thomas C.; Assistant Professor, Department of Physiology and Medicine. B.S., 1963; M.S., 1965; Ph.D., 1969, University of Richmond.
- *SOUDAK, Harold P.; Instructor, Department of Surgery. A. B., 1960, Indiana University; D.D.S., 1965, Loyola University of Chicago.
- STAVINCHA, William B.; Professor, Department of Pharmacology. B.S., 1951; M.S., 1954, The University of Texas at Austin; Ph.D., 1959, The University of Texas Medical Branch at Galveston.
- *STEDMAN, James M.; Assistant Professor (Psychology), Department of Psychiatry. A.B. 1961, Rockhurst College; A.M., 1962; Ph.D., 1966, St Louis University.
- STORY, Jim L.; Professor, Departments of Surgery and Anatomy. B.S., 1951, Texas Christian University; M.D., 1955, Vanderbilt University.
- TAYLOR, Robert L.; Professor, Department of Microbiology. A. B., 1947, Nebraska Wesleyan University; M.A., 1950, The University of Nebraska; Ph.D., 1954, Duke University.
- THOR, Daniel E.; Associate Professor, Departments of Microbiology and Pathology. M.D., 1963, Ph.D., 1968, Medical Center, University of Illinois.
- *TIMSON, Hugh B.; Associate Professor, Department of Surgery. B. S., 1959, West Texas State University; D.D.S., 1962, Baylor University; M.S. 1963, Oklahoma University.
- TRENT, Dennis W.; Associate Professor, Department of Microbiology. B.S., 1959; M.S. 1961, Brigham Young University; Ph.D., 1964, University of Oklahoma School of Medicine.
- *TRINKLE, James Kent; Associate Professor, Department of Surgery. A.B., 1955; M.S., 1957; M.D., 1959, Indiana University.
- TROUSDALE, Melvin D.; Instructor, Department of Microbiology. B.S., 1962, Baylor University; M.S., 1969, University of Maryland.

- *TUNNER, William S.; Assistant Professor, Department of Surgery. M.D., 1960, University of Virginia Medical School.
- VERDER, Elizabeth; Visiting Professor, Department of Microbiology. B.S., 1923; Ph.D., 1928, University of Chicago.
- WAGGENER, Robert G.; Associate Professor, Department of Radiology. B.A., 1954; M.A. 1963, The University of Texas at Austin; Ph.D., 1967, The University of Texas Graduate School of Biomedical Sciences at Houston.
- WALKER, James R.; Adjunct Associate Professor, Department of Microbiology. B.S., 1960, Northwestern State College of Louisiana; Ph.D., 1963, The University of Texas at Austin.
- *WEINSTEIN, George W.; Associate Professor, Department of Surgery. A.B., 1955, University of Pennsylvania; M.D., 1959, State University of New York, Downstate.
- WEISMAN, Robert A.; Associate Professor, Department of Biochemistry. B.S., 1958, Union College; Ph.D., 1963, Massachusetts Institute of Technology.
- WESER, Elliot; Professor, Department of Physiology and Medicine. A.B., 1953; M.D., 1957, Columbia University.
- *WILHELMY, John K.; Assistant Professor, Department of Surgery. B.A., 1959, Stanford University; M.D. 1963, Baylor Medical School.
- *WILKINSON, Tolbert S.; Assistant Professor, Department of Surgery. B.S., 1958, Wake Forest University; M.D. 1962, Duke University.
- WILLIAMS, Vick F.; Associate Professor, Department of Anatomy. B.A., 1958, Austin College (Sherman, Texas); M.D. 1964; Ph.D., 1964, The University of Texas Medical Branch at Galveston.
- WINBORN, William B.; Associate Professor, Department of Anatomy. B.S., 1956, The University of Texas (Austin and Galveston); Ph.D., 1963, Louisiana State University.
- WINSTEL, James W.; Instructor, Department of Bioengineering. B.S., 1967; B.A., 1969, Florida Atlantic University; M.S., 1971, Trinity University.
- *WISSINGER, John P.; Assistant Professor, Department of Surgery. B.S., 1958, M.D., 1962, Georgetown University.
- YOUNG, Robert J.; Associate Professor, Departments of Laboratory Animal Medicine and Radiology. D.V.M., 1950, Texas A&M University; M.P.H., 1955, University of North Carolina (Chapel Hill).
- ZANCA, Peter; Professor and Chairman, Department of Radiology. M.D., 1935, University of Rome Medical School (Italy).
- ZAUDER, Howard L.; Professor and Chairman, Department of Anesthesiology; Professor, Department of Pharmacology. B.A., 1947; M.S., 1949, University of Vermont; Ph.D., 1952, Duke University; M.D., 1955, New York University.

*Pending approval of a graduate program.

STUDENT ROSTER

- BARNES, George Edgar; San Antonio, Texas; B.S., Southwest Texas State University, 1967.
- BELL, John H.; Pennsylvania; B.S., Pennsylvania Military College, 1954.
- BLASK, David Edward; Barneveld, N.Y., B.S., Utica College of Syracuse University, 1969.
- BOWIE, Elizabeth P.; San Antonio, Texas; B.Sc., University of Glasgow, Scotland, 1953.
- CARTER, John William; San Antonio, Texas; B.S., Bethany Nazarene College, 1968.
- CHAMBERS, James Patrick; San Antonio, Texas; B.A., St. Mary's University, 1965.
- CHAROENVIT, Yupin; Bangkok, Thailand; B.Sc., School of Pharmacy, University of Medical Sciences, Bangkok, 1962.
- FISKE, Harold Lea; San Antonio, Texas; B.A., St. Mary's University, 1963.
- HALEY, William Thomas, Jr.; San Antonio, Texas; B.A., St. Mary's University 1964.
- HENDERSON, Arvis Burl; San Angelo, Texas; B.A., The University of Texas at Austin, 1966.
- HESTER, Richard Kelly; Irving, Texas; B.A., Austin College 1969.
- JETER, James Rolater; Ennis, Texas; B.S., Texas Technological College, 1965.
- JONES, David Joseph; Austin, Texas; B.S., The University of Texas at Austin, 1968.
- KARDON, Merrill Brian; San Antonio, Texas; B.A., St. Mary's University, 1968.
- KENNEY, Jane Alice; Corpus Christi, Texas; B. S., Southwest Texas State University, 1968.
- KNIERIEM, Karen Marie; San Antonio, Texas; B.S., Texas Technological University, 1971.
- LEVY, Louis B., San Antonio, Texas; B.S., Southern University, 1956.
- MARINEZ, Yolán Nickel; San Antonio, Texas; B.S., St. Mary's University, 1970.
- MCCOY, Tomothy H.; San Antonio, Texas; B.S., The University of Texas at Austin, 1966.
- MCDAVID, William Doss; San Antonio, Texas; B.A., The University of Texas at Austin, 1970.
- MILLER, Jon Michael; San Antonio, Texas; B.S., Northwestern State University of Louisiana, 1967.
- MYRICK, Erwin George; San Antonio, Texas; B.S., Trinity University, 1968.
- NEWMAN, Joseph Thomas; San Antonio, Texas; A.B., St. Michael's College, 1962.
- QURESHI, Ateef Ahmed; Karachi, Pakistan; B.S., University of Karachi, 1964.
- ROSENTHAL, Edward Jay; San Antonio, Texas; B.S., Trinity University, 1967.
- TENNER, Thomas Edward, Jr.; Dallas, Texas; B.A., University of Dallas, 1971.
- THOMAS, Virginia Lynn; Albany, Texas; B.S., Baylor University, 1965.

VILLEREAL, Mitchel Lynn: San Antonio, Texas; B.S., Trinity University, 1971.

WINSTEL, James William; San Antonio, Texas; B.S., B.A., Florida Atlantic University, 1967, 1969.

WOOD, Katherine Olivia; San Antonio, Texas; B.A., Trinity University, 1972.

ZOLYOMI, Sandor; San Antonio, Texas; B.A., St. Mary's University, 1970.

DEGREES CONFERRED

DOCTOR OF PHILOSOPHY

JUNE 7, 1971

JAMES MURPHY

Pharmacology

JOEL SINGER
ANATOMY

JUNE 5, 1972

GERALD CARRIER
PharmacologyHELGA JUREVICIS
PharmacologyBARBARA PEGRAM
Pharmacology

AUGUST 26, 1972

ELIZABETH BOWIE
Anatomy

Respectfully submitted,



Truman G. Blocker, Jr., M.D.
Interim President



THE UNIVERSITY OF TEXAS
DENTAL SCHOOL AT SAN ANTONIO

September 20, 1972

Dr. Charles A. LeMaistre
Chancellor
The University of Texas System
601 Colorado Street
Austin, Texas 78701

Dear Dr. LeMaistre:

The following docket for The University of Texas Dental School at San Antonio is submitted for your approval and presentation to the Board of Regents at its next meeting in Austin on October 20, 1972:

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET:

TRANSFER OF FUNDS:

1. Amount of Transfer: \$2,000.00
 - To: Outpatient Clinic, Maintenance and Operation \$2,000.00
 - From: Outpatient Clinic, Administrative and Professional Salaries \$2,000.00
 - For: To provide the funds necessary for this department to meet its operational needs. (RBC 22)

The University of Texas
 Dental School at San Antonio
 Federal Contracts and Grants
 October 20, 1972 Meeting

CONTRACTS AND GRANTS (FEDERAL): Approval is requested for the following:

Departmental of Health, Education and Welfare

National Institutes of Neurological Diseases and Stroke

1. Research Grant 5 RO1 NS09693-03

Ultrastructural Aspects of Injured Cerebral Cortex

Dr. Vick F. Williams

Total Award: \$13,416.00

New Money: \$13,416.00

September 1, 1972 - August 31, 1973

Activities, goals, and purposes of grant:

The purpose of this investigation is to describe and interpret the ultrastructural changes in the cat brain resulting from (1) restoration of cerebral circulation following ischemia and (2) local freezing of cerebral cortex. During recovery from the injury and immediately prior to fixation for electron microscopy, electrical activity of the cortex is monitored by means of the electrocortigram. Structures which might be involved in the generation or propagation of seizure activity will be analyzed for qualitative and quantitative changes.

Other information:

This project is a continuation of a series of studies carried out over the past several years aimed at correlating structural and functional aspects of nervous tissue.

Expenditure estimates by county:

Bexar County, Texas: \$13,416.00

Bureau of Health Professions Education

2. Training Grant 1 DO8 PE01249-01

Health Professions Special Project Grant Program

Dr. Jack L. Hartley

Total Award: \$10,000.00

New Money: \$10,000.00

July 1, 1972 - June 30, 1973

Activities, goals and purposes of grant:

This grant, now in progress, is directed toward the development and implementation of an innovative self-instructional system which will simultaneously increase the effectiveness of instruction and reduce the length of time required for teaching the Dental Health Sciences.

Other information:

Administrative policy includes a positive statement of philosophy regarding the desirability of early implementation of self-instructional packages. A high priority has been given to the audio-visual production facilities for instruments and materials utilized in the preparation of audio-visual and other teaching media; this is a continuing activity, the current grant has financially implemented our on-going program and made possible an acceleration of our efforts.

Expenditure estimates by county:

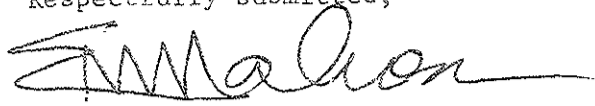
Bexar County, Texas \$2,350.00

Dallas County, Texas 2,422.50

Hayes County, Texas 2,422.50

Comal County, Texas 2,805.00

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "J. Olson", written in dark ink.

John Victor Olson
Dean-Elect

A small, stylized handwritten mark or flourish, possibly a signature or initials, located to the left of the typed name.

THE UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON

GALVESTON, TEXAS

September 22, 1972

Dr. Charles A. LeMaistre
 Chancellor
 The University of Texas System
 Austin, Texas

Dear Dr. LeMaistre:

The following docket is submitted for your approval and presentation to the Board of Regents at its meeting in Austin, Texas, on October 20, 1972:

APPOINTMENTS, CHANGE OF STATUS, AND/OR RESIGNATIONS OF MEMBERSHIPS ON THE MEDICAL STAFF OF THE UNIVERSITY OF TEXAS MEDICAL BRANCH HOSPITALS AT GALVESTON: On the recommendation of the Executive Committee of the Medical Staff, approval is respectfully requested for the following recommendations:

1. Change the staff status of Charles E. Russo, M.D., Clinical Assistant Professor, part-time, Department of Ophthalmology, from Associate Membership to Courtesy Membership with private patient restrictions, effective July 1, 1972.
2. Change the staff status of Robert Hampton Stewart, M.D., Clinical Assistant Professor, part-time, Department of Ophthalmology, from Associate Membership to Courtesy Membership with private patient restrictions, effective July 1, 1972.
3. Change the staff status of Ralph L. Brenner, M.D., Clinical Instructor, part-time, Department of Ophthalmology, from Associate Membership to Courtesy Membership with private patient restrictions, effective July 1, 1972.
4. Change the staff status of Charles R. Broman, M.D., Clinical Assistant Professor, part-time, Department of Ophthalmology, from Associate Membership to Courtesy Membership with private patient privileges, effective July 1, 1972.
5. Change the staff status of David A. Greenspan, M.D., Clinical Assistant Professor, part-time, Department of Ophthalmology, from Associate Membership to Courtesy Membership with private patient restrictions, effective July 1, 1972.
6. Change the staff status of James C. Keatts, M.D., Clinical Instructor, part-time, Department of Ophthalmology, from Associate Membership to Courtesy Membership with private patient restrictions, effective July 1, 1972.
7. Change the staff status of C. W. Payton, M.D., Clinical Associate Professor, part-time, Department of Ophthalmology, from Associate Membership to Courtesy Membership with private patient restrictions, effective July 1, 1972.
8. Change the staff status of Richard S. Ruiz, M.D., Clinical Associate Professor, part-time, Department of Ophthalmology, from Associate Membership to Courtesy Membership with private patient restrictions, effective July 1, 1972.

9. Change the staff status of Robert B. Wilkins, M.D., Clinical Associate Professor, part-time, Department of Ophthalmology, from Associate Membership to Courtesy Membership with private patient restrictions, effective July 1, 1972.
10. Change the staff status of Walter Rex Hawkins, M.D., Clinical Assistant Professor, part-time, Department of Ophthalmology, from Associate Membership to Courtesy Membership with private patient restrictions, effective July 1, 1972.
11. Change the staff status of Bernard A. Milstein, M.D., Clinical instructor, part-time, Department of Ophthalmology, from Associate Membership to Assistant Attending with private patient privileges, effective July 1, 1972.
12. Appointment of Thomas Everett Duncan, M.D., Clinical Instructor, part-time, Department of Ophthalmology, Courtesy Membership on the Medical Staff with private patient restrictions except for the U. S. Public Health Service Hospital, effective July 1, 1972.
13. Appointment of Carol C. Pohl, M.D., Instructor, Department of Radiology, full-time, Assistant Attending Membership on the Medical Staff with private patient privileges, effective July 1, 1972.
14. Appointment of Joseph A. O'Neill, M.D., Instructor, full-time, Department of Radiology, Assistant Attending Membership on the Medical Staff with private patient privileges, effective July 1, 1972.
15. Appointment of Robert Ring, III, M.D., Instructor, full-time, Department of Radiology, Assistant Attending Membership on the Medical Staff with private patient privileges, effective July 1, 1972.
16. Appointment of Arnold D. Wharton, M.D., Instructor, full-time, Department of Obstetrics and Gynecology, Assistant Attending Membership on the Medical Staff with private patient restrictions, effective July 1, 1972.
17. Appointment of John J. Costanzi, M.D., Assistant Professor, full-time, Department of Internal Medicine, Attending Membership on the Medical Staff with private patient privileges, effective July 1, 1972.
18. Appointment of Roger W. Kiser, M.D., Instructor, full-time, Department of Internal Medicine, Attending Membership on the Medical Staff with private patient privileges, effective July 1, 1972.
19. Change the staff status of Charles M. Stiles, M.D., Clinical Instructor, part-time, Department of Internal Medicine, from Associate Membership on the Medical Staff to Attending Membership on the Medical Staff with private patient privileges, effective July 1, 1972.
20. Change the staff status of Francis X. Essex, M.D., Clinical Instructor, part-time, Department of Internal Medicine, from Associate Membership on the Medical Staff to Attending Membership on the Medical Staff with private patient privileges, effective July 1, 1972.
21. Change the staff status of Harry Levine, M.D., Associate Professor, full-time, Department of Internal Medicine, from Active Membership on the Medical Staff to Clinical Associate Professor, part-time, Attending Membership on the Medical Staff with private patient privileges, effective July 1, 1972.
22. Appointment of George R. Baker, Ph.D., Assistant Professor (Psychology), full-time, Department of Pediatrics, Consulting Membership on the Medical Staff with private patient restrictions, effective July 1, 1972.

23. Appointment of John T. O'Neil, M.D., Assistant Professor, full-time, Department of Surgery, Assistant Attending Membership on the Medical Staff with private patient privileges.
24. Change the staff status of Harry B. Kelso, M.D., Clinical Instructor, part-time, Department of Internal Medicine, from Associate Membership on the Medical Staff without private patient privileges to Assistant Attending Membership on the Medical Staff with private patient privileges.
25. Resign Allan Alpard, M.D., Instructor, full-time, Department of Pediatrics, from Active Membership on the Medical Staff, effective June 30, 1972.
26. Resign Gary L. Schechter, M.D., Assistant Professor, full-time, Department of Otolaryngology, from Active Membership on the Medical Staff, effective June 14, 1972.
27. Resign Miquel R. Alonso, M.D., Assistant Professor, full-time, Department of Otolaryngology, from Active Membership on the Medical Staff, effective June 30, 1972.

THE JAMES W. MCLAUGHLIN FELLOWSHIP FUND: On the recommendation of the Medical Branch McLaughlin Committee for the James W. McLaughlin Fellowship Fund, approval is requested for the following recommendations:

1. Renew the McLaughlin Predoctoral Fellowship for Mr. Gordon Schrank, for the period September 1, 1972 through August 31, 1973, to include:

Stipend	\$3,600.00
(Subject to income tax regulations)	
Maintenance and Operation	500.00
Travel	<u>300.00</u>
Total	<u>\$4,400.00</u>

2. Renew the McLaughlin Predoctoral Fellowship for Mr. Charles E. Stager, for the period September 1, 1972 through August 31, 1973, to include:

Stipend	\$4,600.00
(Subject to income tax regulations)	
Maintenance and Operation	500.00
Travel	<u>300.00</u>
Total	<u>\$5,400.00</u>

3. Award a McLaughlin Predoctoral Fellowship to Mr. Charles Nolan Brown, Jr., for the period September 1, 1972 through August 31, 1973, to include:

Stipend	\$4,000.00
(Subject to income tax regulations)	
Maintenance and Operation	500.00
Travel	<u>300.00</u>
Total	<u>\$4,800.00</u>

4. Award a McLaughlin Predoctoral Fellowship to Mr. David Chi, for the period September 1, 1972 through August 31, 1973, to include:

Stipend	\$3,600.00
(Subject to income tax regulations)	
Maintenance and Operation	500.00
Travel	<u>300.00</u>
Total	<u>\$4,400.00</u>

5. Award a McLaughlin Predoctoral Fellowship to Miss Barbara Gayle Schneider, for the period September 1, 1972 through August 31, 1973, to include:

Stipend	\$3,600.00
(Subject to income tax regulations)	
Maintenance and Operation	500.00
Travel	<u>300.00</u>
Total	<u>\$4,400.00</u>

6. Award a McLaughlin Predoctoral Fellowship to Mr. Joseph Glenn Songer, for the period September 1, 1972 through August 31, 1973, to include:

Stipend	\$3,600.00
(Subject to income tax regulations)	
Maintenance and Operation	500.00
Travel	<u>300.00</u>
Total	<u>\$4,400.00</u>

7. Award a McLaughlin Predoctoral Fellowship to Mr. Thomas Stephen Sudela, for the period September 1, 1972 through August 31, 1973, to include:

Stipend	\$4,000.00
(Subject to income tax regulations)	
Maintenance and Operation	500.00
Travel	<u>300.00</u>
Total	<u>\$4,800.00</u>

1972-73 HOLIDAY AND VACATION SCHEDULE: In accordance with the State Appropriations Bill passed at the 3rd Called Session of the 62nd Legislature which provides for a total of thirteen specified holidays plus two working days at Christmas and a maximum of ten working days of vacation for "annual employees of the State," I recommend the following holiday and vacation schedule for all employees of The University of Texas Medical Branch at Galveston for the 1972-73 fiscal year:

Labor Day	Monday	September 4, 1972
Thanksgiving Day	Thursday	November 23, 1972
Thanksgiving Holiday	Friday	November 24, 1972
Christmas Holiday	Friday	December 22, 1972
Christmas Day	Monday	December 25, 1972
Christmas Holiday	Tuesday	December 26, 1972
New Year's Day	Monday	January 1, 1973
Easter Holiday	Friday	April 20, 1973
Memorial Day	Monday	May 28, 1973
Independence Day	Wednesday	July 4, 1973

Five additional State legal holidays not observed by The University of Texas Medical Branch at Galveston will be added to the statutory allowance to provide a total of fifteen working days annual leave for 1972-73.

Five additional working days will be added for annual employees with fifteen or more years of employment with the State and ten additional working days will be added for annual employees with twenty or more years of employment with the State.

REVISIONS TO THE 1972-73 PERSONNEL PAY PLAN: I recommend approval of the following recommendations which have been approved by the System Personnel Director and the Deputy Chancellor for Administration:

1. Add the following new position and salary range to the 1972-73 Personnel Pay Plan, effective September 1, 1972:

<u>Code</u>		<u>Salary Range</u>	
		<u>Monthly</u>	<u>Annually</u>
8473	Radio/Television/Film Specialist II	\$427-603	\$5,124-\$7,236
8474	Radio/Television/Film Specialist I	358-447	4,296- 5,364
4416	Underseas Technician	603-854	7,236-10,248

2. Delete the following position and salary range from the 1972-73 Personnel Pay Plan, effective September 1, 1972:

<u>Code</u>		<u>Salary Range</u>	
		<u>Monthly</u>	<u>Annually</u>
8486	Television Production Assistant	\$358-447	\$4,296-\$5,364

3. Approve a new salary range for the following existing position in our 1972-73 Personnel Pay Plan, effective September 1, 1972:

<u>Code</u>		<u>Salary Range</u>	
		<u>Monthly</u>	<u>Annually</u>
8715	Print Shop Supervisor	\$758-\$1,015	\$9,096-\$12,180

GIFTS: In compliance with Section 1, Subsection 1.3, of Chapter I of Part Two of the Rules and Regulations of the Board of Regents of The University of Texas System, I recommend approval for the acceptance of the following gifts:

<u>Donor and Address</u>	<u>Purpose and Conditions</u>	<u>Amount</u>
1. The Sealy & Smith Foundation For The John Sealy Hospital 200 University Boulevard Galveston, Texas	For support of the Advancement of the Development Programs for 1971 (\$5,000) and 1972 (\$5,000); expenditures authorized by Dr. T. G. Blocker, Jr., President. (This is reported as an extension of a previous gift, previously docketed - Board of Regents' Meeting of October 23, 1970, Item #2, Page G-5)	\$10,000.00
2. Mrs. Nelda C. Stark Drawer 909 Orange, Texas	For support of research in surgery under the direction of Dr. Edgar J. Poth, Professor, Department of Surgery. (This is reported as an extension of a previous gift, previously docketed - Board of Regents' Minutes of August 26-27, 1966, Item #17, Page G-11)	\$10,000.00

GRANTS (NONGOVERNMENTAL): Approval is respectfully requested for the acceptance of the following grants:

<u>Donor and Address</u>	<u>Purpose and Conditions</u>	<u>Amount</u>
1. American Heart Association Texas Affiliate, Inc. P. O. Box 9928 Austin, Texas	For support of research on Myocardial Infarct Scanning with Potassium-43, for the period July 1, 1972 through June 30, 1973. The project is directed by Dr. Ralph Gorten, Chief, Division of Nuclear Medicine, and Associate Professor, Departments of Radiology and Internal Medicine.	\$ 4,950.00
2. American Heart Association Texas Affiliate, Inc. P. O. Box 9928 Austin, Texas	For support of research on A Rapid Non-Invasive Method for Measuring Human C. O., for the period July 1, 1972 through June 30, 1973. The project is directed by Dr. Robert Edward Barrow, Assistant Professor, Department of Physiology.	\$ 5,440.00
3. American Heart Association Texas Affiliate, Inc. P. O. Box 9928 Austin, Texas	For support of research on Exercise, Cardiac Function and Morphology in Normal and Congenitally Cardiomyopathic Hearts, for the period July 1, 1972 through June 30, 1973. The project is directed by Dr. Richard E. Swensson, Fellow in Pediatric Cardiology, Department of Pediatrics.	\$ 3,907.00
4. American Heart Association Texas Affiliate, Inc. P. O. Box 9928 Austin, Texas	For support of research on Energetics of Developing Heart, for the period July 1, 1972 through June 30, 1973. The project is directed by Dr. Louis A. Sordahl, Associate Professor of Pharmacology, Department of Pharmacology.	\$ 4,000.00
5. American Heart Association Bay Area Chapter 2221 Market Street Galveston, Texas	For support of research on Trace Sterols of Human Plasma Lipoproteins, for the period July 1, 1972 through June 30, 1973. The project is directed by Dr. Leland L. Smith, Professor of Biochemistry, Department of Human Biological Chemistry and Genetics.	\$ 1,400.00

GRANTS (NONGOVERNMENTAL) - continued

<u>Donor and Address</u>	<u>Purpose and Conditions</u>	<u>Amount</u>
6. American Heart Association Bay Area Chapter 2221 Market Street Galveston, Texas	For support of research on Catecholamine Granules In Atrial Myocardial Cells, for the period July 1, 1972 through June 30, 1973. The project is directed by Dr. Bruce H. Peters, Assistant Professor, Department of Neurology and Psychiatry, and Adjunct Member, Marine Biomedical Institute.	\$ 1,400.00
7. American Heart Association Bay Area Chapter 2221 Market Street Galveston, Texas	For research on The Effect of Glucagon On the Parameters For Ventricular Fibrillation and Defibrillation, for the period July 1, 1972 through June 30, 1973. The project is directed by Dr. Rene R. Kempen, Assistant Professor, Department of Pharmacology.	\$ 1,400.00
8. American Heart Association Bay Area Chapter 2221 Market Street Galveston, Texas	For research on Endogenous Doc in Experimental Hypertension, for the period July 1, 1972 through June 30, 1973. The project is directed by Dr. Charles E. Hall, Professor, Department of Physiology.	\$ 1,400.00
9. American Heart Association Bay Area Chapter 2221 Market Street Galveston, Texas	For research on Autogenous Tissue as an Interatrial Baffle, for the period July 1, 1972 through June 30, 1973. The project is Directed by Dr. Keith W. Ashcraft, Assistant Professor, Departments of Surgery and Pediatrics.	\$ 1,400.00
10. Damon Runyon Memorial Fund For Cancer Research, Inc. 33 West 56th Street New York, N.Y.	Grant No. DRG-1198 for research on The Effect of Antiplasma Cell Sera on Neoplasia, for the period September 1, 1972 through August 31, 1973. The project is directed by Dr. Nick S. Harris, Assistant Professor, Department of Surgery.	\$18,000.00

GRANTS (NONGOVERNMENTAL) - continued

<u>Donor and Address</u>	<u>Purpose and Conditions</u>	<u>Amount</u>
11. Parkinson's Disease Foundation, Inc. Columbia University 640 W. 168 Street New York, N.Y.	For support of a research fellowship in behalf of Mr. Charles Verheyden, for a three-month period in 1972, under the direction of Dr. Bruce Peters, Associate Professor of Neurology, Department of Neurology and Psychiatry.	\$ 750.00
12. Southern Medical Association 2601 Highland Avenue Birmingham, Alabama	For research on (1) The Use of Frozen Mandibular Allo- graft in Reconstructive Surgery, and (2) The Significance of Cold-Induced Vascular Changes in the Cryo- therapy of Hemangiomas lesions. The project is directed by Dr. Ted T. Huang, Resident in Plastic Surgery, Department of Surgery.	\$ 1,000.00
13. E. R. Squibb & Sons, Inc. c/o The Squibb Institute For Medical Research Princeton, New Jersey	For research on Double Blind Comparison of Cephadrine and Cephalexin (Phase III). The project is directed by Dr. Quillin T. Box, Associate Professor, Department of Pediatrics.	\$ 2,750.00
14. The Upjohn Company Kalamazoo, Michigan	For a clinical study with U-26,452, Phase III, Protocol 004. The project is directed by Dr. Murphy T. Scurry, Assistant Professor, Depart- ment of Internal Medicine.	\$ 1,250.00
15. West Chemical Products, Inc. 42-16 West Street Long Island City, N. Y.	For support of research entitled Evaluation of Prepodyne and Betadine in Patient Preparation for Surgery. The project is directed by Dr. Jess O. Bryant, Assistant Professor, Department of Obstetrics and Gynecology.	\$ 2,500.00

THE UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTONFEDERAL CONTRACTS AND GRANTSBOARD OF REGENTS' MEETING OCTOBER 20, 1972

1. U. S. Department of Justice
National Institute of Law Enforcement and Criminal Justice

Research Grant No. 72-NI-99-0030G
\$19,492
July 1, 1972 to December 31, 1972
Marijuana: The Effects of its Chronic Use on Brain and Behavior
Continuing research for six additional months
Dr. Ernest S. Barratt
Galveston County
2. Department of Health, Education, and Welfare
Health Services and Mental Health Administration
Maternal and Child Health Service

Training Grant No. Project 240
\$183,417
July 1, 1972 through June 30, 1973
Training - Interdisciplinary Health Services for the Handicapped
Dr. ArrNell Boelsche
Support on-going training grant program for 12 additional months.
Galveston County
3. Department of Health, Education, and Welfare
Health Services and Mental Health Administration
Maternal and Child Health Service

Grant No. Project 409
\$98,559
July 1, 1972 through June 30, 1973
Study Program - The Relation of Genetic Studies to Management of Children with Mental Retardation
Dr. Charles W. Daeschner, Jr.
Support on-going study program for 12 additional months
Galveston County
4. Department of Health, Education, and Welfare
Health Services and Mental Health Administration
National Institute of Mental Health

Training Grant No. 5 T01 MH 08029-10
Extension of grant period without additional funds
July 1, 1971 through September 30, 1972
General Practitioner-Residency Training Grant
Dr. Hamilton F. Ford
Galveston County
5. Department of Health, Education, and Welfare
National Institutes of Health
Bureau of Health Manpower Education

Training Grant No. 5 A07 AH 00163-05
Extension of grant period without additional funds
March 1, 1972 through June 9, 1973
Apprenticeship Traineeship Program. This grant provides fellowships
for selected medical students to study community health problems.
Dr. Don W. Micks
Galveston County

FEDERAL CONTRACTS AND GRANTS (continued)

6. Department of Health, Education, and Welfare
National Institutes of Health
Bureau of Health Manpower Education
- Training Contract No. NIH 72-4118
\$116,474
June 1, 1972 through May 31, 1973
Physicians' Assistant Training Program. This contract provides funds to help train Physicians' Assistants.
Dr. Robert K. Bing
Galveston County
7. Department of Health, Education, and Welfare
National Institutes of Health
National Institute of Arthritis, Metabolism, and Digestive Diseases
- Research Grant No. 5 R01 AM 13836-03
Extension of Grant period without additional funds
November 1, 1971 through March 31, 1973
Biochemical Differentiation of Adrenergic Receptors. This study will evaluate the biochemical responses of certain drugs on heart muscles.
Dr. Betty J. Williams
Galveston County
8. Department of Health, Education, and Welfare
National Institute of Health
National Institute of Neurological Diseases and Stroke
- Research Grant No. 3 R01 NS 09743-03S1
\$5,000
August 1, 1972 through April 30, 1973
Synaptic Connections of Spinal Cord Neurons. This research study will provide new knowledge about the electrophysiology of vertebrate spinal cord.
Dr. William D. Willis, Jr.
Galveston County
9. Department of Health, Education, and Welfare
National Institutes of Health
National Institute of Neurological Diseases and Stroke
- Research Grant No. 1 R01 NS 10677-01
\$7,850 plus indirect costs
September 1, 1972 through August 31, 1973
Cholinomimetic Compounds in Digestive Gland. This research study will isolate and identify compounds from the digestive gland of *Aplysia* which have enzymatic action on nerve cells and will correlate these findings with human physiologic principles. This is the first year of an new project.
Dr. James E. Blankenship
Galveston County
10. Department of Health, Education, and Welfare
Health Services and Mental Health Administration
Family Planning Services
- Grant No. 06-H-000-084-03-0
\$264,067
July 1, 1972 through June 30, 1973
Service Grant - Four County Family Planning Project
Dr. Wm. J. McGanity
This is the third year of a continuing project.
Galveston County 55%; Brazoria County 15%, Chambers County 15%, and Jefferson County 15%.

FEDERAL CONTRACTS AND GRANTS (continued)

11. National Aeronautics and Space Administration
Manned Spacecraft Center
- Contract No. NAS 9-13143
\$14,477
August 7, 1972 through September 7, 1972. (First month of a new contract)
Passive Seismic Experiment
Dr. Gary Latham
This contract will assist the National Aeronautics and Space Administration in Evaluation of Data obtained in the Apollo Lunar Surface Experiments.
Galveston County 90%
Hawaii 10%
12. Department of Health, Education, and Welfare
National Institutes of Health
National Cancer Institute
- Research Grant No. 1 R01 CA 13700-01
\$19,780 plus indirect costs
September 1, 1972 through August 31, 1973
Parathyroid Hormone and Cancer. This research study will help determine the relationship between the parathyroid gland and cancer.
Dr. Murphy T. Scurry
Galveston County
13. Department of Health, Education, and Welfare
Social and Rehabilitation Services
Rehabilitation Service Administration
- Grant No. 44-P-30066/6-11
\$18,000
September 1, 1972 through August 31, 1973
Teaching and Traineeships in Physical Therapy. This grant provides physical therapy student fellowships.
Miss Jeanne Schenck
Galveston County
14. Department of Health, Education, and Welfare
National Institutes of Health
National Heart and Lung Institute
- Grant No. 2 R01 HL 09911-07
\$26,645 plus indirect costs
September 1, 1972 through August 31, 1973
Hormonal and Dietary Modification of NACL Toxicity. This study will provide new knowledge about the relationship between salt and hypertension.
Dr. Charles E. Hall
Galveston County
15. Department of Health, Education, and Welfare
National Institutes of Health
National Heart and Lung Institute
- Research Grant No. 1 R01 HL 15319-01
\$27,751 plus indirect costs
October 1, 1972 through September 30, 1973
Genetic Factors in Experimental Hypertension
Dr. Charles E. Hall
Galveston County

FEDERAL CONTRACTS AND GRANTS (continued)

16. Department of Health, Education, and Welfare
National Institutes of Health
National Heart and Lung Institute

Research Grant No. 5 R01 HL 11412-03
Extension of Grant period without additional funds
October 1, 1971 to March 31, 1973
Muscarinic and Nicotinic Ganglionic Blockage. This research study will evaluate the biochemical actions of muscarine and nicotine on the nervous system and the resultant effect on circulation.
Dr. James G. Hilton
Galveston County

17. Department of Health, Education, and Welfare
National Institutes of Health
National Heart and Lung Institute

Research Grant No. 5 P01 HL 10893-07
\$206,183 plus indirect costs
September 1, 1972 through August 31, 1973
Program Project Research in Hematology and Rheology. This study will provide for an interdisciplinary approach to problems of circulation, blood, and blood components.
Dr. M. Mason Guest
Galveston County

18. Department of Defense
United States Air Force

Modification No. P00001 to Contract No. F33615-72-C-1920 which increases the amount of funds allotted for expenditures. There is no change in the total amount of award or performance period.
May 1, 1972 through July 10, 1974
Investigations of Aberrations in Microcirculation in Thermal Stress. This study will help determine the effects of temperature on the microcirculation of blood.
Dr. Charles H. Wells
Galveston County

CONTRACTS AND AGREEMENTS (OTHER): The following contracts and agreements have been executed on behalf of The University of Texas Medical Branch at Galveston by the official indicated. I recommend approval and ratification of signatures:

1. Interagency Cooperation Contract No. IAC(72-73)-590 between The University of Texas Nursing School (System-wide) and The University of Texas Medical Branch at Galveston, wherein The University of Texas Nursing School (System-wide) provides \$34,697.40, for the period September 1, 1972 through August 31, 1973, for the use of 14,503 gross square feet of space in Brackenridge Hall, located on The University of Texas Medical Branch campus at Galveston, for office and class rooms, including the cost of all custodial service, administrative costs, general maintenance and operation such as electricity, heat, water and the necessary repairs, supplies and equipment expense necessary to keep the facility in a first class operating condition, and the salaries for two dormitory counselors. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. The contract was signed by the State Board of Control on July 31, 1972.

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CONTRACTS AND AGREEMENTS (OTHER) - continued

2. Interagency Cooperation Contract No. IAC(72-73)-591 between The University of Texas Nursing School (System-wide) and The University of Texas Medical Branch at Galveston, wherein The University of Texas Nursing School (System-wide) provides \$7,500.00, for the period September 1, 1972 through August 31, 1973, for the use of the Galveston Medical Branch's general stores supplies, telephone and postage, photography services, art work, duplication, and such other needed supplies and services as The School of Nursing (System-wide) considers necessary to its operation. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. The contract was signed by the State Board of Control on July 31, 1972.
3. Interagency Cooperation Contract No. IAC(72-73)-613 between the Texas Rehabilitation Commission and The University of Texas Medical Branch at Galveston, wherein the Texas Rehabilitation Commission provides \$1,088,000, for the period September 1, 1972 through August 31, 1973, for the use of the University's (Galveston Medical Branch) facilities and professional services for the diagnosis, treatment, and hospitalization for patients authorized by the Texas Rehabilitation Commission, and to furnish the Commission with timely written reports of all such diagnosis, treatment, and/or procedures through its various clinical departments and/or divisions. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. The contract was signed by the State Board of Control on August 4, 1972.
4. Interagency Cooperation Contract No. IAC(72-73)-631 between the Texas State Department of Health and The University of Texas Medical Branch at Galveston, wherein the Texas State Department of Health provides \$3,000.00, for the period September 1, 1972 through June 30, 1973, for certain services for children who are presumed to be severely impaired in hearing which may be necessary to staff evaluation by representatives of pediatrics, otology and audiology. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. The contract was signed by the State Board of Control on August 15, 1972.
5. Interagency Cooperation Contract No. IAC(72-73)-632 between The Texas State Department of Health and The University of Texas Medical Branch at Galveston, wherein The Texas State Department of Health provides \$4,500.00, for the period September 1, 1972 through June 30, 1973, for continuing a clinical service program in the Well Child Clinics and Conferences of Galveston County. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. The contract was signed by the State Board of Control on August 15, 1972.
6. Interagency Cooperation Contract No. IAC(72-73)-633 between The Texas State Department of Health and The University of Texas Medical Branch at Galveston, wherein The Texas State Department of Health provides \$6,250.00, for the period September 1, 1972 through June 30, 1973, for a medical team from the Department of Obstetrics and Gynecology to assist in the family planning services program in the Counties of Cameron, Willacy, Hidalgo, and Starr County. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. The contract was signed by the State Board of Control on August 15, 1972.

CONTRACTS AND AGREEMENTS (OTHER) - continued

7. Interagency Cooperation Contract No. IAC(72-73)-634 between The Texas State Department of Health and The University of Texas Medical Branch at Galveston, wherein The Texas State Department of Health provides \$1,300.00, for the period September 1, 1972 through June 30, 1973, for continuing a clinical service program in antenatal and postpartum obstetrical clinics and conferences of Galveston County. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. The contract was signed by the State Board of Control on August 15, 1972.

8. Interagency Cooperation Contract No. IAC(72-73)-635 between the Texas State Department of Health and The University of Texas Medical Branch at Galveston, wherein the Texas State Department of Health provides \$36,000.00, for the period September 1, 1972 through August 31, 1973, for the examination and evaluation of Cervical Cytology Smears for the patients, authorized by the Director of the Maternal and Child Health Division, in the Family Planning Clinics at The University of Texas Medical Branch at Galveston. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. The contract was signed by the State Board of Control on August 15, 1972.

9. Interagency Cooperation Contract No. IAC(72-73)-636 between the Texas State Department of Health and The University of Texas Medical Branch at Galveston, wherein The Texas State Department of Health provides \$36,810.00 for salaries and \$1,000.00 for travel, for the period September 1, 1972 through June 30, 1973, for continuing a district program for intensive pre-natal care. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. The contract was signed by the State Board of Control on August 15, 1972.

10. Interagency Cooperation Contract No. IAC(72-73)-653 between the Texas State Department of Corrections and The University of Texas Medical Branch at Galveston, wherein The University of Texas Medical Branch at Galveston provides \$12,000.00, for the period September 1, 1972 through August 31, 1973, for blood received from the donors of the inmate population of the Texas Department of Corrections. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. The contract was signed by the State Board of Control on August 18, 1972.

11. Interagency Cooperation Contract No. IAC(72-73)-671 between the Texas State Department of Health and The University of Texas Medical Branch at Galveston, wherein the Texas State Department of Health provides \$27,540.00, for the period September 1, 1972 through August 31, 1973, for a board eligible or board certified obstetrician-gynecologist from the Department of Obstetrics and Gynecology to serve as full time medical director of the comprehensive family planning services in the Counties of Cameron, Hidalgo, and Starr County. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. The contract was signed by the State Board of Control on August 21, 1972.

CONTRACTS AND AGREEMENTS (OTHER) - continued

12. Interagency Cooperation Contract between The University of Texas System, Regional Medical Program of Texas and The University of Texas Medical Branch at Galveston, wherein The University of Texas System, Regional Medical Program of Texas provides \$11,643.00, for the period July 1, 1972 through March 31, 1973, for assembling a reference document for Texas Botanical and Zoological Toxicity Problems in a format suitable for publication. The contract was signed on behalf of The University of Texas Medical Branch at Galveston by Mr. V. E. Thompson, Vice President for Business Affairs and Hospital Services. (Since payments under this contract will not be made through State channels, it was not necessary to obtain approval by the State Board of Control).

13. State Project No. 03-0815 SS by which the Texas Education Agency, Austin, Texas, provides \$16,221.00, for the period July 1, 1972 through June 30, 1973, for Tutoring and Special Activities for Hospitalized Children and Adolescents. The project is directed by Dr. Donna A. Livingston, Director of School Services for Pediatric and Psychiatric Patient Department.

14. State Project No. 03-0814 SS, by which the Texas Education Agency, Austin, Texas, provides \$11,734.00, for the period July 1, 1972 through June 30, 1973, for continuing a Learning Resources Center in a Hospital Setting for Child and Adolescent Psychiatric Patients. The project is directed by Dr. Donna A. Livingston, Director of Schol Services for Pediatric and Psychiatric Patient Department.

RECOMMENDED AMENDMENTS TO 1971-72 BUDGETGeneral AdministrationOffice of the President

1. Increase the salary rate of Miss Patricia J. Pomeroy, Assistant to the President, from \$18,000 to \$20,000 for 12 months, effective July 1, 1972. Additional funds needed are to come from Unallocated Appropriations - General. This increase is requested due to the added responsibilities while on assignment at The University of Texas Medical School at San Antonio. (RBC 645)

Instruction and Departmental OperationsOffice of the Vice President for Academic Affairs and Dean of Medicine

2. Appoint Dr. John G. Bruhn as Associate Dean of Medicine at a salary rate of \$30,000 for 12 months, effective July 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. Dr. Bruhn also serves as Professor, part-time, without salary, in the Department of Preventive Medicine and Community Health. (RBC 631)

3. Change the title only of Dr. Edward N. Brandt, Jr., from Dean, Graduate School, to Associate Dean for Clinical Affairs at the same salary rate of \$37,500 for 12 months (\$31,000 from General Budget and \$6,500 from Various Purposes Grant), effective March 1, 1972. Dr. Brandt also serves as Professor, part-time, without salary, in the Department of Preventive Medicine and Community Health. (RBC 692)

Aerospace Medicine

4. Appoint Dr. William M. Ewing (non-tenure) as Professor and Chief, Environmental Sciences, part-time, without salary, effective July 1, 1972. Dr. Ewing also serves as Chief, Environmental Sciences, at a salary rate of \$45,000 for 12 months in the Marine Biomedical Institute. (RBC 671)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedAerospace Medicine - continued

5. Appoint Dr. Henry J. Dorman (non-tenure) as Professor, Environmental Sciences, part-time, without salary, effective July 1, 1972. Dr. Dorman also serves as Member, Environmental Sciences, at a salary rate of \$27,000 for 12 months in The Marine Biomedical Institute. (RBC 674)

6. Appoint Dr. John L. Worzel (non-tenure) as Professor and Deputy Chief, Environmental Sciences, part-time, without salary, effective July 1, 1972. Dr. Worzel also serves as Deputy Chief, Environmental Sciences, at a salary rate of \$33,500 for 12 months in The Marine Biomedical Institute. (RBC 676)

7. Appoint Dr. Gary V. Latham (non-tenure) as Professor, Environmental Sciences, part-time, without salary, effective July 1, 1972. Dr. Latham also serves as Member, Environmental Sciences, at a salary rate of \$27,000 for 12 months, in the Marine Biomedical Institute. (RBC 677)

Anatomy

8. Appoint Dr. Riley C. Yu (non-tenure) as Assistant Professor at a salary rate of \$15,000 for 12 months, effective July 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 649)

9. Accept the resignation of Dr. Robert D. Yates (tenure), Professor, at a salary rate of \$25,000 for 12 months, effective July 31, 1972. (RBC 660)

10. Change the source of funds for Dr. Bryant Benson (tenure), Associate Professor, at a salary rate of \$21,500 for 12 months from Various Purposes Grant to General Budget only, effective July 1, 1972. General Budget funds needed are to come from Unallocated Appropriations - Instructional. (RBC 694)

Anesthesiology

11. Accept the resignation of Dr. Cecile Khoury (non-tenure), Clinical Instructor, part-time, without salary, effective June 30, 1972. (RBC 630)

Biochemistry and Nutrition

12. Change the source of funds only for Dr. Wiktor W. Nowinski (tenure), Research Professor - Biochemistry, at a salary rate of \$19,500 for 12 months, from \$12,500 from General Budget, \$2,400 from U. S. Navy Contract and \$4,600 from National Science Foundation Grant to \$17,100 from General Budget and \$2,400 from U. S. Navy Contract, effective June 1, 1972. Additional General Budget funds needed are to come from Unallocated Appropriations - Instructional. (RBC 600)

Human Biological Chemistry and Genetics

13. Appoint Dr. James S. Kittredge (non-tenure) as Adjunct Professor, part-time, without salary, effective May 1, 1972. Dr. Kittredge also serves as Chief, Comparative Marine Biochemistry and Pharmacology Section, part-time, without salary, in The Marine Biomedical Institute. (RBC 605)

14. Appoint Dr. Louis A. Sordahl (non-tenure) as Associate Professor at a salary rate of \$24,000 for 12 months, effective July 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 642)

15. Appoint Dr. Geraldine H. Cohen (non-tenure) as Research Scientist (Faculty) at a salary rate of \$15,000 for 12 months, effective July 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 643)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedHuman Biological Chemistry and Genetics

16. Appoint Dr. John A. Hooper (non-tenure) as Research Scientist (Faculty) at a salary rate of \$15,000 for 12 months, effective June 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 625)

17. Appoint Dr. Allan L. Goldstein (tenure) as Professor at a salary rate of \$32,000 for 12 months, effective July 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 648)

Internal Medicine

18. Accept the resignation of Dr. Barry A. Portnoy (non-tenure), Clinical Instructor, part-time, without salary, effective June 30, 1972. (RBC 607)

19. Grant a leave of absence, without salary, to Dr. Francisco J. Muniz (non-tenure), Assistant Professor, part-time, at a salary of \$3,359 for 12 months, effective June 30, 1972. (RBC 613)

20. Increase the salary rate and change the source of funds for Dr. Akira Nishimura (non-tenure), Instructor, from \$12,200 (\$2,200 from General Budget and \$10,000 from SRA Grant No. 13-P-5523616-03) to \$19,000 for 12 months to General Budget only, effective July 1, 1972. Additional General Budget funds needed are to come from Unallocated Appropriations - Instructional. Dr. Nishimura has assumed increased responsibilities and has been promoted from a Fellowship to full-time instructor. (RBC 623)

21. Accept the resignation of Dr. Glen H. Stanbaugh, Jr., (non-tenure), Instructor - Chief Resident, part-time, at a salary of \$7,000 for 12 months, effective June 30, 1972. (RBC 627)

22. Appoint Dr. John J. Costanzi (non-tenure) as Assistant Professor at a salary rate of \$24,000 for 12 months (\$5,477 from General Budget and \$18,523 from DHEW Grant No. 5 P01-HE-10893-06), effective July 1, 1972. General Budget funds needed are to come from Unallocated Appropriations - Instructional. (RBC 632)

23. Accept the resignation of Dr. Patsy R. Koeppe (non-tenure), Clinical Assistant Professor, part-time, at a salary of \$8,000 for 12 months, effective July 21, 1972. (RBC 637)

24. Appoint Dr. Robert W. Kiser (non-tenure) as Instructor and Chief Resident, part-time, at a salary of \$7,000 for 12 months, effective July 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 678)

25. Change the status of Dr. Harry Levine (tenure) from Associate Professor on a leave of absence, without salary, to Clinical Associate Professor, part-time, without salary, effective July 1, 1972. (RBC 693)

26. Accept the resignation of Dr. Ewell G. Scott (non-tenure), Clinical Instructor, part-time, without salary, effective June 30, 1972. (RBC 710)

Neurology and Psychiatry

27. Accept the resignation of Dr. Linda J. Smith (non-tenure), Instructor, at a salary rate of \$18,000 for 12 months, effective June 15, 1972. (RBC 611)

28. Appoint Dr. Alan S. Appelbaum (non-tenure) as Assistant Professor at a salary rate of \$16,000 for 12 months, effective July 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 638)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedNeurology and Psychiatry

29. Appoint Dr. William I. Kracke (non-tenure) as Instructor, part-time, at a salary of \$8,100 for 12 months, effective July 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 639)
30. Appoint Dr. Elizabeth M. Heimburger (non-tenure) as Assistant Professor at a salary rate of \$18,000 for 12 months, effective August 1, 1972. Funds needed are to come from DHEW Grant No. 5 T01-MH-08084-10. (RBC 650)
31. Appoint Dr. Ludy T. Benjamin, Jr., (non-tenure) as Associate in Psychology at a salary rate of \$6,000 for 12 months, effective July 1, 1972. Funds needed are to come from NIMH 5T01-MH-07631-12. (RBC 669)
32. Appoint Dr. George R. Baker (non-tenure) as Assistant Professor, part-time, without salary, effective July 1, 1972. Dr. Baker also serves as Assistant Professor - Psychology, part-time, at a salary of \$14,500 for 12 months in the Department of Pediatrics, and as Psychologist, part-time, at a salary of \$5,500 for 12 months in Moody State School. Total salary for 12 months, \$20,000.00. (RBC 682)
33. Appoint Dr. Lawrence S. McGaughran (non-tenure) as Associate in Psychology at a salary rate of \$12,000 for 12 months, effective July 1, 1972. Funds needed are to come from DHEW Grant No. 5 T01-MH-07631-12. (RBC 685)
34. Change the status of Dr. David C. Eiland (non-tenure), Assistant Professor, from part-time, at a salary of \$11,000 to full-time at a salary rate of \$22,000 for 12 months, effective July 1, 1972. Funds needed are to come from DHEW Grant No. 1T01-MH-13255-01. Dr. Eiland also serves as Assistant Professor, part-time, without salary, in the Department of Preventive Medicine and Community Health. (RBC 689)

Obstetrics and Gynecology

35. Appoint Dr. Arnold D. Wharton (non-tenure) as Instructor at a salary rate of \$12,000 for 12 months, effective July 1, 1972. Funds needed are to come from the State Department of Health Contract. (RBC 641)

Ophthalmology

36. Appoint Dr. Thomas E. Duncan (non-tenure) as Clinical Instructor, part-time, without salary, effective July 1, 1972. (RBC 644)

Otolaryngology

37. Increase the salary rate of Mr. Joe L. Slade, Jr., Assistant to the Chairman, from \$12,000 (\$5,870 from General Budget and \$6,130 from MSRDP - Otolaryngology) to \$12,660 for 12 months (\$6,000 from General Budget and \$6,660 from MSRDP - Otolaryngology), effective July 1, 1972. Additional General Budget funds needed are to come from Unallocated Appropriations - Instructional. (RBC 634)
38. Accept the resignation of Dr. Gary L. Schechter (non-tenure), Assistant Professor, at a salary rate of \$23,500 for 12 months, effective July 14, 1972. (RBC 635)

Pathology

39. Appoint Dr. Landon C. Stout, Jr., (Initial Request for Tenure Award) as Associate Professor at a salary rate of \$24,000 for 12 months (\$23,000 from General Budget and \$1,000 from MSRDP - Pathology), effective July 1, 1972. General Budget funds needed are to come from Unallocated Appropriations - Instructional.

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedPathology

40. Appoint Dr. Ernest O. H. Mueller, Jr., (non-tenure) as Adjunct Instructor, part-time, without salary, effective July 1, 1972. (RBC 628)

41. Appoint Dr. Ronald L. Gillum (non-tenure) as Assistant Professor at a salary rate of \$22,000 for 12 months, effective August 22, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 686)

Pediatrics

42. Accept the resignation of Dr. Allan J. Alpard (non-tenure, Instructor, at a salary rate of \$16,200 for 12 months (\$12,400 from General Budget, \$2,600 from C and Y Project 06-H-000-080-051, and \$1,200 from Squibb Institute Grant), effective June 30, 1972. (RBC 657)

43. Appoint Dr. George R. Baker (non-tenure) as Assistant Professor - Psychology, part-time, at a salary of \$14,500 for 12 months (\$407 from General Budget and \$14,093 from DHEW CB Project No. 409(10), effective July 1, 1972. General Budget funds needed are to come from Unallocated Appropriations - Instructional. Dr. Baker also serves as Assistant Professor, part-time, without salary, in the Department of Neurology and Psychiatry, and as Psychologist, part-time, at a salary of \$5,500 for 12 months in Moody State School. Total salary for 12 months, \$20,000. (RBC 683)

44. Change the source of funds for Dr. Hugo Carvajal (non-tenure), Assistant Professor, at a salary rate of \$22,500 for 12 months, from \$10,500 from General Budget and \$12,000 from Shrine Affiliation Agreement to \$19,000 from General Budget and \$3,500 from Shrine Affiliation Agreement, effective August 1, 1972. General Budget funds needed are to come from Unallocated Appropriations - Instructional. (RBC 698)

Pharmacology

45. Grant a reassignment leave and change the source of funds for Dr. Bohdan R. Nechay (tenure), Associate Professor at a salary rate of \$21,500 for twelve months, from General Budget to DHEW Grant No. 5 E03-PE-00170-07, effective July 1, 1972. (RBC 656)

46. Accept the resignation of Dr. McChesney Goodall (tenure), Professor, at a salary rate of \$25,000 for 12 months, effective July 31, 1972. (RBC 696)

Physiology

47. Grant a leave of absence, without salary, to Dr. Francisco J. Muniz (non-tenure), Assistant Professor, part-time, at a salary of \$18,523 for 12 months, effective June 30, 1972. (RBC 614)

48. Appoint Dr. John W. Horton (non-tenure) as Research Scientist (Faculty), part-time, without salary, effective July 1, 1972. (RBC 617)

49. Accept the resignation of Dr. McChesney Goodall (tenure), Professor, part-time, without salary, effective July 31, 1972. (RBC 697)

Preventive Medicine and
Community Health

50. Change the status of Dr. Fratis L. Duff (non-tenure) from Lecturer, part-time, without salary, to Adjunct Professor, part-time, without salary, effective June 1, 1972. (RBC 604)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedPreventive Medicine and
Community Health

51. Appoint Dr. John G. Bruhn (tenure) as Professor, part-time, without salary, effective July 1, 1972. Dr. Bruhn also serves as Associate Dean of Medicine at a salary rate of \$30,000 for 12 months in the Office of the Vice President for Academic Affairs and Dean of Medicine. (RBC 634)

52. Change the source of funds for Dr. David W. Rowden (non-tenure), Assistant Professor, from DHEW Grant No. 5 D04-AH-01109-07 to \$8,000 from General Budget and \$8,000 from DHEW Grant No. 5 D04-AH-01109-07, effective July 1, 1972. General Budget funds needed are to come from Unallocated Appropriations - Instructional. (RBC 655)

53. Change the status of Dr. David C. Eiland (non-tenure), Assistant Professor, part-time, from a salary of \$11,000 for 12 months to without salary, effective July 1, 1972. Dr. Eiland also serves as Assistant Professor at a salary rate of \$22,000 for 12 months in the Department of Neurology and Psychiatry. (RBC 690)

54. Appoint Dr. Elbert B. Whorton, Jr., (non-tenure) as Associate Professor at a salary rate of \$24,000 for 12 months, effective August 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 699)

55. Change the status of Dr. Alice A. O'Donnell (non-tenure), Assistant Professor, from full-time at a salary rate of \$21,500 for 12 months to part-time, without salary, effective August 1, 1972. Dr. O'Donnell also serves as Assistant Professor at a salary rate of \$21,500 for 12 months in the School of Allied Health Sciences - Office of the Dean. (RBC 702)

Radiology

56. Appoint Dr. Joseph A. O'Neill (non-tenure) as Instructor at a salary rate of \$18,000 for 12 months, effective July 1, 1972. Funds needed are to come from the departmental teaching salaries budget. (RBC 610)

57. Appoint Dr. Carol A. Pohl (non-tenure) as Instructor at a salary rate of \$13,500 for 12 months, effective July 1, 1972. Funds needed are to come from MSRDP - Radiology. (RBC 640)

Surgery

58. Accept the resignation of Dr. James E. Doyle (non-tenure), Assistant Professor, at a salary rate of \$19,000 for 12 months, effective June 30, 1972. (RBC 612)

59. Accept the resignation of Dr. Ulf B. Hjelmquist (non-tenure), Research Surgeon at a salary rate of \$10,000 for 12 months, effective July 14, 1972. (RBC 651)

60. Appoint Dr. Robert A. Booth (non-tenure) as Research Surgeon at a salary rate of \$3,600 for 12 months, effective July 1, 1972. Funds needed are to come from the departmental non-teaching salaries budget. (RBC 658)

61. Appoint Dr. John T. O'Neal (non-tenure) as Assistant Professor at a salary rate of \$22,000 for 12 months, effective July 12, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 680)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedSurgery

62. Change the status of Mr. Raymond M. Dunning, Jr., Assistant to the Chairman, from part-time to full-time at the same salary rate of \$18,000 for 12 months, effective August 14, 1972. Additional funds needed are to come from MSRDP - Surgery. (RBC 711)

School of Allied Health Sciences -
Office of the Dean

63. Appoint Mr. Byron F. Cook, III, as Assistant in Instruction, one-half time, at a salary rate of \$4,800 for 12 months, effective July 1, 1972. Funds needed are to come from DHEW Grant No. 5E01-AH-00538-05. (RBC 679)

64. Appoint Mr. James W. Galbraith, Assistant in Instruction, one-half time, at a salary rate of \$4,800 for 12 months, effective July 1, 1972. Funds needed are to come from DHEW Grant No. 5 E01-AH-00538-05. (RBC 684)

65. Change the status of Dr. Alice A. O'Donell (non-tenure), Assistant Professor, from part-time, without salary, to full-time at a salary rate of \$21,500 for 12 months, effective August 1, 1972. Funds needed are to come from NIH Grant No. 72-4118(P). Dr. O'Donell also serves as Assistant Professor, part-time, without salary, in the Department of Preventive Medicine and Community Health. (RBC 703)

School of Allied Health Sciences -
Occupational Therapy

66. Appoint Mrs. Patricia A. Trial (non-tenure) as Instructor, part-time, at a salary of \$2,400 for 12 months, effective June 14, 1972. Funds needed are to come from the departmental teaching salaries budget. (RBC 602)

67. Accept the resignation of Miss Valerie B. Wilson (non-tenure), Instructor, part-time, at a salary of \$2,400 for 12 months, effective June 13, 1972. (RBC 603)

68. Reappoint Mrs. Carrie E. Evans (non-tenure) as Instructor, part-time, at a salary of \$2,505 for 12 months, effective July 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. Mrs. Evans is returning from a Leave of Absence. (RBC 659)

69. Accept the resignation of Miss Janet L. Shipley, Adjunct Instructor, part-time, without salary, effective December 31, 1971. (RBC 668)

70. Appoint Mr. Patrick J. Ryan (non-tenure) as Assistant Professor, part-time, at a salary of \$6,552 for 12 months, effective August 23, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. (RBC 715)

School of Allied Health Sciences -
Associated Health Occupations

71. Appoint Dr. John A. Jenicek (non-tenure) as Adjunct Associate Professor, part-time, without salary, effective July 1, 1972. Dr. Jenecik also serves as Associate Professor at a salary rate of \$25,000 for 12 months in the Department of Anesthesiology. (RBC 661)

72. Appoint Mrs. Dwytha C. Gusta (non-tenure) as Instructor, part-time, at a salary of \$1,200 for 12 months, effective July 1, 1972. Funds needed are to come from Unallocated Appropriations - Instructional. Mrs. Gusta also serves as Technical Director, Pulmonary Therapy Service, part-time, at a salary of \$9,660 in Pulmonary Therapy and at a salary of \$4,140 in Pulmonary Therapy Service - Sealy & Smith Foundation Hospitals. Total salary for 12 months, \$15,000. (RBC 667)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedSchool of Allied Health Sciences -
Associated Health Occupations

73. Appoint Mr. Larry R. Hudson (non-tenure) as Director of Technical Education for Inhalation Therapy, part-time, at a salary of \$4,800 for 12 months, effective July 1, 1972. Funds needed are to come from Galveston College Health Occupation Program. Mr. Hudson also serves as Assistant Technical Director, Pulmonary Therapy, part-time, at a salary of \$5,810 for 12 months in Pulmonary Therapy Service, and at a salary of \$2,490 for 12 months in Pulmonary Therapy Service - Sealy & Smith Foundation Hospitals. Total salary for 12 months, \$13,100.00. (RBC 688)

74. Appoint Mr. Robert C. Greaser (non-tenure) as Instructor at a salary rate of \$14,760 for 12 months, effective August 14, 1972. Funds needed are to come from MIH Grant No. 72-4118. (RBC 701)

University Hospitals
Office of the Vice President
for Hospital Services

75. Appoint Mr. Kenneth J. Wine as Assistant to the Administrator for Material Management and Staff Services at a salary rate of \$14,500 for 12 months, effective June 19, 1972. Funds needed are to come from the departmental non-teaching salaries budget. (RBC 608)

Nursing Service - Administration

76. Appoint Mrs. Martha J. Bass as Assistant Director of Nursing at a salary rate of \$12,000 for 12 months, effective June 19, 1972. Funds needed are to come from the departmental non-teaching salaries budget. (RBC 616)

77. Change the title only of Mrs. Pearl M. Bean from Associate Director, Nursing Service, part-time, to Area Clinical Nursing Director, part-time, at the same salary of \$11,250 for 12 months, effective June 20, 1972. Mrs. Bean also serves as Area Clinical Nursing Director, part-time, at a salary of \$3,750 for 12 months in Nursing Service - Sealy & Smith Foundation Hospitals. Total salary for 12 months, \$15,000. (RBC 718)

78. Change the status of Miss Anna P. Rains from Area Clinical Nursing Director, full-time, at a salary rate of \$13,200 for 12 months to Director, Nursing Service, part-time, at a salary of \$11,250 for 12 months, effective August 1, 1972. Miss Rains also serves as Director, Nursing Service, part-time, at a salary of \$3,750 for 12 months in Nursing Service - Sealy & Smith Foundation Hospitals. Total salary for 12 months, \$15,000. (RBC 719)

Surgical Operating Suite

79. Accept the resignation of Mr. Raymond M. Dunning, Jr., Manager, Surgical Operating Suite, at a salary of \$8,400 for 12 months, effective August 13, 1972. (RBC 712)

80. Appoint Mr. Christopher C. Launey, Manager, Surgical Operating Suite, at a salary rate of \$12,000 for 12 months, effective August 14, 1972. Funds needed are to come from Unallocated Appropriations - Hospitals. (RBC 714)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedMoody State School

81. Appoint Dr. George R. Baker as Psychologist, part-time, at a salary of \$5,500 for 12 months, effective July 1, 1972. Funds needed are to come from Unallocated Appropriations - Hospitals. Dr. Baker (non-tenure) also serves as Assistant Professor - Psychology, part-time, at a salary of \$14,500 in the Department of Pediatrics and as Assistant Professor, part-time, without salary, in the Department of Neurology and Psychiatry. Total salary for 12 months, \$20,000. (RBC 681)

Pulmonary Therapy Service

82. Appoint Mr. Larry R. Hudson as Assistant Technical Director, Pulmonary Therapy, part-time, at a salary of \$9,282 for 12 months, effective June 22, 1972 through June 30, 1972. Funds needed are to come from the departmental non-teaching salaries budget. Mr. Hudson also serves as Assistant Technical Director, Pulmonary Therapy, part-time, at a salary of \$3,818 for 12 months in Pulmonary Therapy Service - Sealy & Smith Foundation Hospitals. Total salary for 12 months, \$13,100. (RBC 622)

83. Change the salary of Mrs. Dwytha C. Gusta, Technical Director, part-time, from \$9,947 to \$9,660 for 12 months, effective July 1, 1972. Mrs. Gusta also serves as Technical Director, part-time, at a salary of \$4,140 for 12 months in Pulmonary Therapy Service - Sealy & Smith Foundation Hospitals and as Instructor, part-time, at a salary of \$1,200 for 12 months in the School of Allied Health Sciences - Associated Health Occupations. Total salary for 12 months, \$15,000. (RBC 666)

84. Reappoint Mr. Larry R. Hudson as Assistant Technical Director, part-time, at a salary of \$5,810 for 12 months, effective July 1, 1972. Funds needed are to come from the departmental non-teaching salaries budget. Mr. Hudson also serves as Assistant Technical Director, Pulmonary Therapy, part-time, at a salary of \$2,490 for 12 months in Pulmonary Therapy Service - Sealy & Smith Foundation Hospitals, and as Director of Technical Education for Inhalation Therapy, part-time, at a salary of \$4,800 for 12 months in the School of Allied Health Sciences - Associated Health Occupations. Total salary for 12 months, \$13,100. (RBC 687)

Rehabilitation Clinic, Occupational Therapy

85. Appoint Miss Lucy G. Bruce as Associate in Occupational Therapy, part-time, without salary, effective June 1, 1972. Miss Bruce also serves as Assistant Professor at a salary rate of \$10,920 for 12 months in the School of Allied Health Sciences - Occupational Therapy. (RBC 596)

86. Appoint Dr. Robert K. Bing as Associate in Occupational Therapy, part-time, without salary, effective June 1, 1972. Dr. Bing also serves as Dean, School of Allied Health Sciences, part-time, at a salary of \$21,800 and as Professor, part-time, at a salary of \$1,200 in School of Allied Health Sciences - Occupational Therapy. Total salary for 12 months, \$23,000. (RBC 599)

School Service for Pediatric and Psychiatric Patients

87. Change the title only of Mrs. Marcia M. Seely from School Teacher to Educational Diagnostician, part-time, without salary, effective June 18, 1972. (RBC 633)

88. Appoint Mrs. Brenda N. Beathard as School Teacher, part-time, without salary, effective June 19, 1972. (RBC 663)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedSchool Service for Pediatric and
Psychiatric Patients

89. Appoint Mrs. Priscilla Sustaita as Teacher's Aide, part-time, without salary, effective August 14, 1972. (RBC 664)

90. Appoint Mrs. Roberta Denton as School Teacher, part-time, without salary, effective June 5, 1972. (RBC 665)

91. Accept the resignation of Dr. Donna A. Livingston, Director, Child and Adolescent Educational Therapy at a salary rate of \$13,530 for 12 months (\$11,130 from General Budget and \$2,400 from MSRDP - Neurology and Psychiatry), effective August 17, 1972. (RBC 700)

92. Reappoint Mr. William S. Allred as School Teacher at the same salary rate of \$9,460 for 12 months, effective August 12, 1972. Funds needed are to come from Unallocated Appropriations - Hospitals. (RBC 720)

The Marine Biomedical Institute

93. Appoint Dr. James S. Kittredge as Chief, Comparative Marine Biochemistry and Pharmacology Section, part-time, without salary, effective May 1, 1972. Dr. Kittredge also serves as Adjunct Professor, part-time, without salary, in Human Biological Chemistry and Genetics. (RBC 606)

94. Appoint Dr. Brett A. Gooden as Visiting Scientist at a salary rate of \$15,000 for 12 months, effective June 1, 1972. Funds needed are to come from Moody Foundation Grant No. 70-14(03). (RBC 609)

95. Appoint Mr. Michael C. Gianturco as Scientific Documentation Officer, one-half time, at a salary rate of \$13,200 for 12 months, effective June 20, 1972. Funds needed are to come from Moody Foundation Grant No. 70-14. (RBC 626)

96. Change the title of Mr. Dennis J. Bowman from Diving Operation Officer to Operations Officer at the same salary rate of \$13,800 for 12 months, effective July 1, 1972. (RBC 662)

97. Appoint Dr. Gary V. Lathan as Member, Environmental Sciences, at a salary rate of \$27,000 for 12 months, effective July 1, 1972. Funds needed are to come from Unappropriated Surplus. Dr. Lathan also serves as Professor - Environmental Sciences, part-time, without salary, in the Department of Aerospace Medicine. (RBC 670)

98. Appoint Dr. William M. Ewing as Chief, Environmental Sciences at a salary rate of \$45,000 for 12 months, effective July 1, 1972. Funds needed are to come from Unappropriated Surplus. Dr. Ewing also serves as Professor and Chief, Environmental Sciences, part-time, without salary, in the Department of Aerospace Medicine. (RBC 672)

99. Appoint Dr. Henry J. Dorman as Member, Environmental Sciences, at a salary rate of \$27,000 for 12 months, effective July 1, 1972. Funds needed are to come from Unappropriated Surplus. Dr. Dorman also serves as Professor, Environmental Sciences, part-time, without salary, in the Department of Aerospace Medicine. (RBC 673)

100. Appoint Dr. John L. Worzel as Deputy Chief, Environmental Sciences, at a salary rate of \$33,500 for 12 months, effective July 1, 1972. Funds needed are to come from Unappropriated Surplus. Dr. Worzel also serves as Professor and Deputy Chief, Environmental Sciences, part-time, without salary, in the Department of Aerospace Medicine. (RBC 675)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedThe Marine Biomedical Institute

101. Change the status of Mr. Michael C. Gianturco, Scientific Documentation Officer from one-half time to full-time at the same salary rate of \$13,200 for 12 months, effective July 3, 1972. Funds needed are to come from Moody Foundation Grant No. 70-14. (RBC 691)

102. Appoint Dr. Tosimatu Matumoto as Senior Research Investigator at a salary rate of \$20,000 for 12 months, effective August 8, 1972. Funds needed are to come from National Aeronautics and Space Administration Contract No. NAS 9-13143. (RBC 716)

Medical Branch Library

103. Increase the salary rate of Miss Mary J. Thomas, Extension Librarian, from \$9,200 to \$10,000 for 12 months, effective July 1, 1972. Additional funds needed are to come from DHEW Grant No. 5 G04-IM-01152-02. (RBC 636)

The Sealy & Smith Foundation HospitalsNursing Service

104. Change the status of Mrs. Pearl M. Bean from Associate Director, Nursing Service, part-time, to Area Clinical Nursing Director, part-time, at the same salary of \$3,750 for 12 months, effective June 20, 1972. Mrs. Bean also serves as Area Clinical Nursing Director, part-time, at a salary of \$11,250 for 12 months in Nursing Service - Administration. Total salary for 12 months, \$15,000. (RBC SS16)

105. Appoint Miss Anna P. Rains as Director, Nursing Service, part-time, at a salary of \$3,750 for 12 months, effective August 1, 1972. Funds needed are to come from Unallocated Appropriations - Hospitals. Miss Rains also serves as Director, Nursing Service, part-time, at a salary of \$11,250 for 12 months in Nursing Service - Administration. Total salary for 12 months, \$15,000. (RBCSS17)

Pulmonary Therapy Service

106. Appoint Mr. Larry R. Hudson as Assistant Technical Director, part-time, at a salary of \$3,818 for 12 months, effective June 22, 1972 through June 30, 1972. Funds needed are to come from the departmental non-teaching salaries budget. Mr. Hudson also serves as Assistant Technical Director, part-time, at a salary of \$9,282 for 12 months in Pulmonary Therapy Service - University Hospitals. Total salary for 12 months, \$13,100. (RBC SS13)

107. Change the salary of Mrs. Dwytha C. Gusta, Technical Director, part-time, from \$4,253 to \$4,140 for 12 months, effective July 1, 1972. Mrs. Gusta also serves as Technical Director, Pulmonary Therapy Service, part-time, at a salary of \$9,660 in Pulmonary Therapy Service, University Hospitals, and as Instructor, part-time, at a salary of \$1,200 for 12 months in the School of Allied Health Sciences - Associated Health Occupations. Total salary for 12 months, \$15,000. (RBC SS14)

108. Reappoint Mr. Larry R. Hudson as Assistant Technical Director, Pulmonary Therapy, at a salary of \$2,490 for 12 months, effective July 1, 1972. Funds needed are to come from the departmental non-teaching salaries budget. Mr. Hudson also serves as Assistant Technical Director, Pulmonary Therapy, part-time, at a salary of \$5,810 for 12 months in Pulmonary Therapy Service, University Hospitals, and as Director of Technical Education for Inhalation Therapy, part-time, at a salary of \$4,800 for 12 months in the School of Allied Health Sciences - Associated Health Occupations. Total salary for 12 months, \$13,100. (RBC SS15)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedTransfer of Funds

109. From: Administrative Charges to Trust Funds \$ 7,500.00

To: University Advancement Development Programs \$ 7,500.00

For: These funds are needed for the continuing operations of the Development Programs in the Office of the President for the remainder of this fiscal year.

(RBC 615)

110. From: Administrative Charges to Trust Funds \$50,000.00

To: Rare Book Collection	\$15,000.00	
Administrative Travel Expense	20,000.00	
University Advancement Development Programs	<u>15,000.00</u>	<u>\$50,000.00</u>

For: The purchase of rare books, for the leasing of an airplane for called meetings within the State, and support of the University Advancement Development Programs - Office of the President.

(RBC 706)

111. From: Project Allocation Plant Fund \$20,000.00

To: Consultation Fees for Central Food Processor Center \$20,000.00

For: Funds needed for consultation fees for assistance in planning of a Central Food Processor Center.

(RBC 709)

112. From: Office of the President:
Travel \$ 2,000.00

To: Office of the President:
Maintenance and Operation \$ 2,000.00

For: Funds needed for the continued operations for the remainder of this fiscal year.

(RBC 653)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedTransfer of Funds (cont'd.)

113. From: Office of the Director of Student
Personnel Service:
Travel \$ 400.00

To: Office of the Director of Student
Personnel Service:
Maintenance and Operation \$ 400.00

For: Funds needed for the continued operations
for the remainder of this fiscal year.

(RBC 705)

114. From: Office of Admissions - Travel \$ 400.00

To: Office of Admissions - Maintenance & Operation \$ 400.00

For: Funds needed for the continued operation for
the remainder of this fiscal year.

(RBC 704)

115. From: Unallocated Appropriations - General \$ 2,000.00

To: Office of the Purchasing Agent:
Maintenance and Operation \$ 2,000.00

For: Funds needed for the continued operations
for the remainder of this fiscal year.

(RBC 618)

116. From: Development Office - Travel \$ 158.00

To: Development Office - Maintenance and Operation \$ 158.00

For: Funds needed for continued operations for the
remainder of this fiscal year.

(RBC 654)

117. From: Unallocated Appropriations - Instructional -
Classified \$ 9,305.99

To: Classified Salaries - Department of Human
Biological Chemistry and Genetics \$ 9,305.99

For: Create two (2) new positions of Senior Research
Associate at a salary rate of \$11,400 for 12
months. One (1) position is to be effective
June 1, 1972 and one (1) June 19, 1972. Also,
create a new position of Research Associate at
a salary rate of \$9,600 for 12 months and a
Research Technician position at a salary rate
of \$7,104 for 12 months, each effective June 1,
1972.

(RBC 624)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedTransfer of Funds (cont'd.)Human Biological Chemistry and Genetics

118. From: Unallocated Appropriations - Instructional -
Classified \$ 3,140.00

To: Classified Salaries \$ 3,140.00

For: Create a new position of Secretary III at a salary rate of \$7,440 for 12 months and a Senior Research Associate position at a salary rate of \$11,400 for 12 months, effective July 1, 1972.

(RBC 647)

119. From: Unallocated Appropriations - Instructional -
Classified \$ 2,678.00

To: Human Biological Chemistry and Genetics:
Classified Salaries \$ 2,678.00

For: Create a new position of Research Associate at a salary rate of \$9,600 for 12 months and a Clerk-Typist III position at a salary rate of \$6,468 for 12 months, effective July 1, 1972.

(RBC 652)

120. From: Preventive Medicine and Community
Health - Maintenance and Operation \$ 625.00

To: Preventive Medicine and Community
Health - Travel \$ 625.00

For: Funds needed to cover the travel cost for Dr. Elbert B. Whorton, Jr., Associate Professor, Department of Preventive Medicine and Community Health, to participate in the joint meetings of the American Statistical Association, the Biometric Society and the Institute of Mathematical Statistics in Montreal, Canada.

(RBC 708)

121. From: Unallocated Appropriations - Hospitals \$ 25,500.00

To: Radiology - Maintenance and Operation \$ 25,500.00

For: Funds needed for continued operations for the remainder of this fiscal year.

(RBC 598)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedTransfer of Funds (Cont'd.)

122. From: Nursing Service - Administration: \$ 3,000.00
 Travel

 To: Nursing Service - Administration: \$ 3,000.00
 Equipment

For: The purchase of equipment needed for the remainder of this fiscal year.

(RBC 695)

123. From: Unallocated Appropriations - Hospitals \$ 3,080.00

 To: Clinical Laboratory - Classified Salaries \$ 3,080.00

For: Create a new position of Research Associate at a salary rate of \$9,240 for 12 months, effective May 1, 1972.

(RBC 621)

124. From: Unallocated Appropriations - Hospitals \$ 979.99

 To: Radiology Service - Classified Salaries \$ 979.99

For: Create a new position of X-Ray Technician I at a salary rate of \$4,200 for 12 months, effective June 7, 1972.

(RBC 619)

125. From: The Marine Biomedical Institute - Travel \$ 4,000.00

 To: The Marine Biomedical Institute: \$ 4,000.00
 Maintenance and Operation

For: To increase the Maintenance and Operation account for expenditures not originally anticipated.

(RBC 629)

126. From: Unallocated Appropriations - Hospitals \$13,170.00

 To: Security Division - Classified Salaries \$13,170.00

For: Funds needed for the employment of ten (10) temporary employees for the summer months.

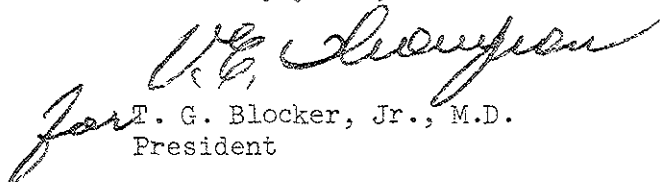
(RBC 620)

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continuedTransfer of Funds (Cont'd.)

127. From:	Unallocated Appropriations - Hospitals	\$ <u>3,000.00</u>
	To: Hospital Equipment Fund - Sealy & Smith Foundation Hospitals - Maintenance & Operation	\$ <u>3,000.00</u>
For:	Funds needed for the installation of an Aero-Flush Sanitizer and an Ice Machine in the hospital.	

(RBC SS12)

Sincerely yours,



T. G. Blocker, Jr., M.D.
President

THE UNIVERSITY OF TEXAS
MEDICAL SCHOOL AT HOUSTON

September 22, 1972

Dr. Charles A. LeMaistre
Chancellor
The University of Texas System
Austin, Texas 78701

Dear Dr. LeMaistre:

The following docket is submitted for your approval and presentation to the Board of Regents at the meeting in Austin on October 20, 1972.

GRANTS (NONGOVERNMENTAL): Approval is respectfully requested for the acceptance of the following grant.

1. A four-year Robert Wood Johnson Foundation Student-Aid Program Grant which provides \$28,967 for use in helping minority students become physicians. The grant provides support specifically for scholarships and loans to women, black, Mexican-American, Indian, and Puerto Rican students. The long-range goal is that financial support to these students will encourage them to set up practices later in medically deprived areas. This program is to be directed by Dr. Robert L. Tuttle, Associate Dean for Academic Affairs.

CONTRACTS AND AGREEMENTS (OTHER): Approval is respectfully requested for the acceptance of the following contract.

1. Interagency Cooperation Contract No. IAC(72-73)-690, whereby The University of Texas M. D. Anderson Hospital and Tumor Institute agrees to furnish general stores supplies, duplicating and such other needed supplies and services, including instructional and professional services, as The University of Texas Medical School at Houston may consider necessary to its operation. This contract, signed on behalf of the Houston Medical School by C. R. Richardson, Associate Dean for Business Affairs, is a renewal of Interagency Cooperation Contract No. IAC(72-73)-033 and is for the period September 1, 1972 through August 31, 1973, not to exceed one hundred thousand dollars (\$100,000.00).

HOUSTON MEDICAL SCHOOL
FEDERAL CONTRACTS AND GRANTS
OCTOBER 20, 1972 BOARD OF REGENTS MEETING

Approval is respectfully requested for the acceptance of the following Federal contracts and grants.

1. Grant No. 7 R01 AI11361-01, by which the Department of Health, Education and Welfare, National Institute of Allergy and Infectious Diseases, Parasitology and Medical Entomology Branch, provides \$13,913 for the period September 1, 1972 through August 31, 1973 for support of research entitled "Basis of Acquired Resistance to *Trichinella Spiralis*," to be directed by Dr. Gilbert A. Castro, Associate Professor in the Program of Physiology. The significance of this research lies in revealing critical biochemical and physiological functions in nematodes which are vulnerable to host immune responses and which would provide a basis for study in developing control measures such as vaccines and anthelmintics. The majority of expenditures from this award will be made in Harris County.
2. Grant No. 7 R01 AM16505-01, by which the Department of Health, Education and Welfare, National Institute of Arthritis, Metabolism and Digestive Diseases, Digestive Diseases Branch, provides \$31,286 for the period September 1, 1972 through August 31, 1973 for support of research entitled "Gastrin on Growth and Amino Acid Uptake in G.I. Tract," to be directed by Dr. Leonard R. Johnson, Professor in the Program of Physiology. The purpose of this research is to study the role of gastrin as a regulator of growth and differentiation of the gastrointestinal tract mucosa and to examine and describe the nonsecretory functions of gastrin. The majority of expenditures from this award will be made in Harris County.
3. Contract No. DADA17-72-C-2095, by which the Department of the Army, U.S. Army Medical Research and Development Command, Washington, D.C., provides \$15,922 for the period February 1, 1972 through July 31, 1972 for support of research entitled "The Mesenteric Circulation in Diarrheal Diseases," to be directed by Dr. Eugene D. Jacobson, Professor and Director of the Program in Physiology. This research is a definitive study of the relation of intestinal blood flow, and biochemical modulators of the secretory and circulatory responses which will lead to more effective diagnosis and treatment of diarrheal diseases. The majority of expenditures from this award will be made in Harris County.

RECOMMENDED AMENDMENTS TO THE 1971-72 PERSONNEL PAY PLAN: Approval is respectfully requested for the following amendments to the 1971-72 Personnel Pay Plan.

	<u>Code No.</u>	<u>Job Title</u>	<u>Monthly Range</u>	<u>Annual Range</u>
1.	8415	Television Technical Director	\$ 910-1,150	\$10,920-13,800
2.	8519	Illustration Assistant II	439- 592	5,268- 7,104
3.	8556	Audio-Visual Educational Specialist I	592- 770	7,104- 9,240
4.	8813	Medical Photography Supervisor	800-1,050	9,600-12,600
5.	9317	Systems Analyst/Programmer II	1,150-1,475	13,800-17,700

These amendments have been approved by E. D. Walker, Deputy Chancellor for Administration.

RECOMMENDED AMENDMENTS TO THE 1972-73 PERSONNEL PAY PLAN: Approval is respectfully requested for the following amendment to the 1972-73 Personnel Pay Plan.

	<u>Code No.</u>	<u>Job Title</u>	<u>Monthly Range</u>	<u>Annual Range</u>
1.	9083	Mail Services Supervisor	\$515-694	\$6,180-8,328

This amendment has been approved by E. D. Walker, Deputy Chancellor for Administration.

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET: Approval is respectfully requested for the following amendments to the 1971-72 Budget.

GENERAL ADMINISTRATION

Various

1. Transfer of Funds: (RBC No. 118)

From:	Office of the Associate Dean for Academic Affairs Administrative & Professional Salaries	\$12,000.00
	Office of the Associate Dean for Health Affairs and Planning Administrative & Professional Salaries	12,510.00
		<u>\$24,510.00</u>
To:	Office of the Associate Dean for Health Affairs and Planning Travel	\$ 2,000.00
	Office of Admissions Maintenance & Operation	7,000.00
	Office of the Director of Fiscal Services Classified Salaries	3,550.00
	Maintenance & Operation	9,200.00
	Office of the Director of General Services Classified Salaries	2,760.00
		<u>\$24,510.00</u>

For: This transfer is requested to reallocate funds according to current operating needs. These funds are to be used for required supplies and material and for creating the new positions of Accountant I at an annual salary of \$8,520, effective April 1, 1972, and Buyer II at an annual salary of \$5,520, effective March 1, 1972.

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGETOffice of the Associate Dean for Business Affairs

2. Appoint Roosevelt Ronald Burrell as Internal Auditor in the Office of the Associate Dean for Business Affairs at an annual salary of \$10,500, effective August 1, 1972. Funds needed are to come from Unallocated Appropriations General - Administrative and Professional Salaries. (RBC No. 131)

GENERAL INSTITUTIONAL EXPENSECommunications

3. Transfer of Funds: (RBC No. 119)

From: Space Rental	
Maintenance & Operation	\$22,000.00
Unallocated Appropriations General	
Classified Salaries	2,260.00
	<u>\$24,260.00</u>
To: Communications	
Classified Salaries	\$ 2,260.00
Maintenance & Operation	22,000.00
	<u>\$24,260.00</u>

For: This transfer is requested to provide the additional funds necessary to support the current operating level of the Communications Department and to create the new position of Secretary III at an annual salary of \$6,780, effective May 1, 1972.

Planning Consultants

4. Transfer of Funds: (RBC No. 120)

From: Unallocated Appropriations General	
Maintenance & Operation	\$17,000.00
To: Planning Consultants	
Maintenance & Operation	\$17,000.00

For: This transfer is requested to provide the additional funds necessary to support the current operating level of the Planning Consultants Department.

INSTRUCTION AND DEPARTMENTAL RESEARCH - ANALYTIC SCIENCESAnatomy

5. Appoint Dr. Michael E. Barberie (non-tenure) as Instructor in the Program of Anatomy at an annual salary of \$18,000, effective June 23, 1972 through August 23, 1972. Funds needed are to come from Unallocated Appropriations Instructional - Faculty Salaries. (RBC No. 121)

6. Appoint Dr. Hubert N. Blackford (non-tenure) as Instructor in the Program of Anatomy at an annual salary of \$18,000, effective June 23, 1972 through August 23, 1972. Funds needed are to come from Unallocated Appropriations Instructional - Faculty Salaries. (RBC No. 122)

7. Appoint Dr. Ian S. Fentiman (non-tenure) as Instructor in the Program of Anatomy at an annual salary of \$18,000, effective June 23, 1972 through August 23, 1972. Funds needed are to come from Unallocated Appropriations Instructional - Faculty Salaries. (RBC No. 123)

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGETAnatomy - continued

8. Appoint Dr. Murray G. Jamieson (non-tenure) as Instructor in the Program of Anatomy at an annual salary of \$18,000, effective June 23, 1972 through August 23, 1972. Funds needed are to come from Unallocated Appropriations Instructional - Faculty Salaries. (RBC No. 124)
9. Appoint Dr. Anthony Jones (non-tenure) as Instructor in the Program of Anatomy at an annual salary of \$18,000, effective June 23, 1972 through August 23, 1972. Funds needed are to come from Unallocated Appropriations Instructional - Faculty Salaries. (RBC No. 125)
10. Appoint Dr. Douglas A. Luke (non-tenure) as Instructor in the Program of Anatomy at an annual salary of \$18,000, effective June 23, 1972 through August 23, 1972. Funds needed are to come from Unallocated Appropriations Instructional - Faculty Salaries. (RBC No. 126)
11. Appoint Dr. Kenneth Rogers (non-tenure) as Instructor in the Program of Anatomy at an annual salary of \$18,000, effective June 23, 1972 through August 23, 1972. Funds needed are to come from Unallocated Appropriations Instructional - Faculty Salaries. (RBC No. 127)
12. Appoint Dr. David A. Tolley (non-tenure) as Instructor in the Program of Anatomy at an annual salary of \$18,000, effective June 23, 1972 through August 23, 1972. Funds needed are to come from Unallocated Appropriations Instructional - Faculty Salaries. (RBC No. 128)
13. Appoint Dr. Yat-Kiu Wong (non-tenure) as Instructor in the Program of Anatomy at an annual salary of \$18,000, effective June 23, 1972 through August 23, 1972. Funds needed are to come from Unallocated Appropriations Instructional - Faculty Salaries. (RBC No. 129)
14. Appoint Dr. Richard W. Worth (non-tenure) as Instructor in the Program of Anatomy at an annual salary of \$18,000, effective June 23, 1972 through August 23, 1972. Funds needed are to come from Unallocated Appropriations Instructional - Faculty Salaries. (RBC No. 130)

Biochemistry and Molecular Biology

15. Appoint Dr. Henry W. Strobel, Jr. (non-tenure) as Assistant Professor in the Program of Biochemistry and Molecular Biology at an annual salary of \$17,500, effective July 15, 1972. Funds needed are to come from departmental Faculty Salaries. (RBC No. 109)

Neurostructure and Function

16. Transfer of Funds: (RBC No. 115)

From: Unallocated Appropriations Instructional Faculty Salaries	<u>\$30,000.00</u>
To: Neurostructure and Function Equipment	<u>\$30,000.00</u>
For: This transfer is requested to provide funds for the purchase of additional required items of equipment for the instructional program.	

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGETPharmacology

17. Transfer of Funds: (RBC No. 116)

From: Unallocated Appropriations Instructional Faculty Salaries	<u>\$60,000.00</u>
To: Pharmacology	
Maintenance & Operation	\$29,600.00
Equipment	30,400.00
	<u>\$60,000.00</u>

For: This transfer is requested to provide funds for the purchase of needed supplies and equipment to initiate the instructional program in Pharmacology.

Physiology

18. Accept the resignation of Dr. Chi-chiang Mao (non-tenure) as Research Associate in the Program of Physiology, effective July 27, 1972. Reference RBC No. 106. (RBC No. 132)

INSTRUCTION AND DEPARTMENTAL RESEARCH - CLINICAL SCIENCESAllergy

19. Appoint the following physicians as Clinical Associates (non-tenure) in the Program of Allergy. All are without salary, effective January 1, 1972. (RBC No. 112)

Dr. Richard L. Etter	Dr. John P. McGovern
Dr. Ramon Garrido	Dr. Warren J. Raymer
Dr. Richard H. Jackson	Dr. D. W. Wadell

Dermatology

20. Appoint the following physicians as Clinical Associates (non-tenure) in the Program of Dermatology. All are without salary, effective January 1, 1972. (RBC No. 143)

Dr. Samuel F. Bean	Dr. John M. Knox
Dr. Ann Bennett	Dr. Leonard Meltzer
Dr. Shirley S. Bowen	Dr. Donald W. Owens
Dr. Fred F. Castrow, II	Dr. Elizabeth W. Rauschkolb
Dr. William H. Connor	Dr. J. B. Richardson
Dr. W. Roy Knowles	Dr. Everett R. Seale

Orthopedics

21. Appoint the following physicians as Clinical Associates (non-tenure) in the Program of Orthopedics. All are without salary, effective January 1, 1972. (RBC No. 146)

Dr. Charles E. Baker	Dr. John F. McCluskey
Dr. Frank L. Barnes, II	Dr. Charles L. McCollum
Dr. Billie D. Burdeaux, Jr.	Dr. Grant R. McKeever
Dr. James E. Butler, III	Dr. Thomas O. Moore
Dr. Cecil M. Christensen	Dr. John A. Murray
Dr. A. Ross Davis	Dr. Page W. Nelson
Dr. Richard DeYoung	Dr. James K. Pevey
Dr. Jesse H. Dickson	Dr. William J. Rylee
Dr. John K. Dozier, Jr.	Dr. Thomas O. Shindler
Dr. Gary C. Freeman	Dr. Edward T. Smith
Dr. William R. Hampton	Dr. Myer Stumer
Dr. LeRoy W. Hanson	Dr. Hugh S. Tullos
Dr. Roland D. Jackson	Dr. Henry D. Wilde, Jr.
Dr. Arthur M. Jansa	Dr. Byron P. York, Jr.
Dr. Donald T. Lazarz	

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGETPathology

22. Appoint Dr. Peter M. Marcuse (non-tenure) as Lecturer in the Program of Pathology without salary, effective January 1, 1972. (RBC No. 134)
23. Appoint Dr. Franz Leidler (non-tenure) as Lecturer in the Program of Pathology without salary, effective January 1, 1972. (RBC No. 135)

Pediatrics

24. Appoint Dr. Kay L. R. Lewis (non-tenure) as Clinical Associate in the Program of Pediatrics without salary, effective January 1, 1972. (RBC No. 114)
25. Appoint Dr. Joseph A. Stool (non-tenure) as Clinical Associate in the Program of Pediatrics without salary, effective January 1, 1972. (RBC No. 136)
26. Appoint the following physicians as indicated below in the Program of Pediatrics. These appointments are non-tenure and all are without salary, effective January 1, 1972. (RBC No. 137)

Lecturer Emeritus
Dr. Byron P. York

Clinical Associates

Dr. Laura Bickel	Dr. Robert E. Leaton
Dr. E. B. Brandes	Dr. Paul Lensky
Dr. Matthew D. Burnett, Jr.	Dr. A. Pidd Miller
Dr. Stuart K. Cohan	Dr. A. A. Mintz
Dr. Raymond Cohen	Dr. Max R. Mintz
Dr. James L. Collier	Dr. David M. Mumford
Dr. James R. Curbo	Dr. A. J. Rudolph
Dr. Murdina M. Desmond	Dr. George W. Salmon
Dr. Gerald Y. George	Dr. David Schrum
Dr. Jack R. Hild	Dr. Joseph Shoss
Dr. Frank D. Hill	Dr. Nuel C. Windrow
Dr. Alvin Jaffee	Dr. John Bob Young

27. Appoint Dr. James H. Brown (non-tenure) as Research Associate in the Program of Pediatrics at an annual salary of \$15,000, effective August 15, 1972. Funds needed are to come from DHEW Research Grant No. GM19513-01A1 and the National Genetics Foundation Grant. (RBC No. 148)

Physical Medicine and Rehabilitation

28. Appoint the following physicians as Clinical Associates (non-tenure) in the Program of Physical Medicine and Rehabilitation. All are without salary, effective January 1, 1972. (RBC No. 111)

Dr. Ariel Bar-Sela

Dr. Oscar O. Selke, Jr.

Psychiatry

29. Accept the resignation of Dr. Norman J. Knorr (non-tenure) as Professor in the Program of Psychiatry, effective June 30, 1972. Reference RBC No. 25. (RBC No. 133)

Surgery - General

30. Appoint Dr. Benjy F. Brooks (non-tenure) as Clinical Associate in the Program of Surgery - General without salary, effective January 1, 1972. (RBC No. 108)

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGETSurgery - General

31. Transfer of Funds: (RBC No. 117)

From: Unallocated Appropriations Instructional
Faculty Salaries \$80,000.00

To: Surgery - General
Equipment \$80,000.00

For: This transfer is requested to provide funds to purchase the initial supply of equipment for the instructional program in Surgery - General.

32. Appoint Dr. Horace T. Robbins (non-tenure) as Clinical Associate in the Program of Surgery - General without salary, effective January 1, 1972. (RBC No. 140)

33. Appoint Dr. Hiram L. Brockman, Jr. (non-tenure) as Clinical Associate in the Program of Surgery - General without salary, effective January 1, 1972. (RBC No. 141)

34. Appoint Dr. Bruce V. MacFadyen, Jr. (non-tenure) as Research Fellow in the Program of Surgery - General at an annual salary of \$4,900, effective July 1, 1972. Funds needed are to come from the Abbott Laboratories Grant. (RBC No. 147)

Surgery - Colon and Rectal

35. Appoint the following physicians as Clinical Associates (non-tenure) in the Program of Surgery - Colon and Rectal. All are without salary, effective January 1, 1972. (RBC No. 110)

Dr. Donald R. Butts	Dr. J. Wade Harris
Dr. John E. Cogan	Dr. Mircea I. Lengyel
Dr. Edward Earle	Dr. Samuel Simkin
Dr. James M. Hampton	

Surgery - Dental

36. Appoint the following physicians as Clinical Associates (non-tenure) in the Program of Surgery - Dental. All are without salary, effective January 1, 1972. (RBC No. 113)

Dr. William H. Bell	Dr. Joseph Mannas
Dr. James Bugg	Dr. James S. Millsap
Dr. Robert R. Debes	Dr. John E. Pleasants
Dr. Jesse C. Galbreath	Dr. George P. Quirk
Dr. T. N. Hamblen	Dr. Raymond Reid
Dr. James M. Hebert	Dr. Hutton A. Shearer
Dr. Edward C. Hinds	Dr. Daniel G. Walker
Dr. Bernard Katz	Dr. Thomas M. Weil
Dr. John N. Kent	Dr. H. W. Woodward

Surgery - Neurosurgery

37. Appoint the following physicians as Clinical Associates (non-tenure) in the Program of Surgery - Neurosurgery. All are without salary, effective January 1, 1972. (RBC No. 142)

Dr. Pedro C. Caram	Dr. Stanley J. Hite
Dr. George J. Ehni	Dr. J. Randolph Jones
Dr. Alexander Gol	Dr. Antonio A. Moure
Dr. James Greenwood, Jr.	Dr. Charles R. Neblett
Dr. Richard M. Hirshberg	

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGETSurgery - Otolaryngology

38. Appoint the following physicians as Clinical Associates (non-tenure) in the Program of Surgery - Otolaryngology. All are without salary, effective January 1, 1972. (RBC No. 145)

Dr. Claude C. Cody, III	Dr. Joe A. Izen
Dr. Robert M. Davis	Dr. Van L. Lawrence
Dr. Jorge A. deCardenas	Dr. Marvin W. Lerner
Dr. J. Ray Dickey	Dr. Richard M. Turney
Dr. J. Charles Dickson	Dr. Charles A. Van Wart
Dr. William L. Draper	Dr. Allen N. Weaver
Dr. Herbert H. Harris	Dr. Ben T. Withers
Dr. John W. Herndon	Dr. William K. Wright

Surgery - Thoracic and Cardiac

39. Appoint the following physicians as Clinical Associates (non-tenure) in the Program of Surgery - Thoracic and Cardiac. All are without salary, effective January 1, 1972. (RBC No. 144)

Dr. Fred H. Aves	Dr. Charles H. McCollum, III
Dr. Hermann A. Dobbs, Jr.	Dr. Robert C. Overton
Dr. John B. Fitzgerald	Dr. Luther H. Parr
Dr. Gene A. Guinn	Dr. Don C. Quast
Dr. Beryl L. Harberg	Dr. Richard K. Ricks
Dr. Walter S. Henly	Dr. A. C. Ripepi


Surgery - Urology

40. Appoint Dr. Cecil M. Crigler (non-tenure) as Clinical Professor in the Program of Surgery - Urology without salary, effective January 1, 1972. (RBC No. 138)

41. Appoint the following physicians as Clinical Associates (non-tenure) in the Program of Surgery - Urology. All are without salary, effective January 1, 1972. (RBC No. 139)

Dr. Herbert H. Duke, Jr.	Dr. Ray M. Morgan, Jr.
Dr. Lewis B. Fram	Dr. Donald J. Neese
Dr. N. M. Goodloe	Dr. Harold G. Schillaci
Dr. Donald S. Huger	Dr. Thane T. Sponsel
Dr. Victor L. Kobb	Dr. Albert M. Thomas
Dr. Homer F. Leifeste	Dr. Garrett Tucker, III
Dr. Ross D. Margraves	Dr. E. Carson Williams
Dr. Robert R. Martinez	

Respectfully submitted,


Cheves McC. Smythe, M.D.
President

THE UNIVERSITY OF TEXAS
DENTAL BRANCH
AT HOUSTON

September 20, 1972

Dr. Charles A. LeMaistre, Chancellor
The University of Texas System
Austin, Texas 78712

Dear Doctor LeMaistre:

The following docket is submitted for your approval and presentation to the Board of Regents at the meeting in Austin, Texas on October 20, 1972.

CONTRACTS AND AGREEMENTS: The following contracts have been negotiated by the Associate Dean for Business Affairs and approved by the Dean. I recommend your approval and ratification of the signatures.

1. Interagency Cooperation Contract IAC (72-73)-616 whereby The University of Texas Dental Branch agrees to reimburse The University of Texas M. D. Anderson Hospital and Tumor Institute for a pro rated share of the costs of operating the joint boiler room, pay the cost of using the laundry at a rate of \$.07 1/2 per pound for finished flat work and \$.35 per uniform, and reimburse the actual cost of campus security. Payment for services performed shall be billed monthly but shall not exceed \$140,000.00, for the period September 1, 1972, through August 31, 1973. This contract was approved by the State Board of Control on August 15, 1972, and is a renewal of 1971-72 Interagency Cooperation Contracts No. IAC (72-73)-121 (boiler room and laundry) and IAC (72-73)-376 (campus security).

2. Amendment No. 1 to Interagency Contract IAC (72-73)-483, to show the total amount of this contract shall not exceed \$22,500.00, for the period June 15, 1972, through August 31, 1972. This amendment was approved by the State Board of Control on August 18, 1972. (See Meeting No. 701, Page D-1, Item No. 2)

FACULTY (WITHOUT SALARY AND WITHOUT TENURE): I recommend your approval of the following additions and deletions to the Faculty, all without salary and without tenure, effective September 1, 1972.

1. Deletion: Dr. James T. Miller as Clinical Professor in the Department of General Practice.
2. Deletion: Dr. Richard R. Anderson as Clinical Assistant Professor in the Department of Maxillo Facial Prosthesis.
3. Deletion: Dr. Frank R. Faunce as Clinical Assistant Professor in the Department of Pedodontics.
4. Addition: Dr. Adrian J. Sampeck as Clinical Associate Professor in the Department of Endodontics.
5. Addition: Dr. Manuel De la Rosa R. as Clinical Assistant Professor in the Dental Science Institute for the period September 1, 1972, to December 31, 1972, inclusive.

THE UNIVERSITY OF TEXAS
DENTAL BRANCH
AT HOUSTON

Federal Contracts and Grants
October 20, 1972

The following grants have been negotiated by the Associate Dean for Business Affairs and have been signed by the Dean upon recommendation of the Grant Director, and approved by the Comptroller and the Chancellor. I recommend your approval and ratification of the signatures.

1. Continuation of National Institutes of Health Cost Reimbursement Contract NIH-NIDR-71-2377 for \$77,003.00, for the period June 30, 1972, through June 29, 1973, entitled "Effect of Xerostomia on Human Oral Microflora Aimed at Developing a Model System for the Rapid Screening of Caries Control Agents." The prime purpose of this study is to determine the effects of radiation induced xerostomia on the human oral microflora and to develop therefrom a model system for the rapid screening of caries control agents. The majority of the expenditures from this award will be made in Harris County. This project is directed by Dr. Samuel Dreizen and Dr. Lee R. Brown, Jr., Members and Professors, Dental Science Institute.
2. Continuation of Public Health Service Research Grant 5 RO1 DE-01547-12 for \$26,896.00, for the period September 1, 1972, through August 31, 1973, entitled "Tissue Culture and Electron Microscopy of the Gingiva." The major effort of this research is to elicit new biologic information about the gingiva and periodontium in health and disease, using the investigative procedures of tissue culture and electron microscopy. The majority of the expenditures from this award will be made in Harris County. This project is directed by Dr. George G. Rose, Professor, Medicine (Internal Medicine).
3. Public Health Service Research Grant 7 RO1 DE-03743-01 for \$19,698.00, for the period September 1, 1972, through August 31, 1973, entitled "Endogenous Inflammatory Mediators in Periodontal Disease." It is the overall objective of this work to study some of the mechanisms involved in the biochemical reaction of the gingival tissue to certain bacterial products present in human plaque, specifically the release and role of certain endogenous compounds which act as mediators of the inflammatory reaction. The majority of the expenditures from this award will be made in Harris County. This project is directed by Dr. Edward H. Montgomery, Associate Professor, Physiology (Pharmacology).
4. Continuation of Public Health Service Research Grant 5 RO1 HD-06213-02 for \$15,752.00, for the period September 1, 1972, through August 31, 1973, entitled "Developmental Biology and Gametogenesis." The basic objective of this research is to investigate two unique aspects of marmoset reproductive biology: (1) the consistent occurrence of twinning and (2) the invariable exchange of cells which occurs between these twins. The majority of the expenditures from this award will be made in Harris County. This project is directed by Dr. Suzanne H. Hampton, Assistant Member, Dental Science Institute.

GRANTS (NONGOVERNMENTAL): The following grants have been received. I recommend your approval and that the appreciation of the Board of Regents be sent to the donor by the Secretary.

<u>Donor</u>	<u>Purpose and Condition</u>	<u>Amount</u>
1. The Procter & Gamble Company 6000 Center Hill Road Cincinnati, Ohio 45224 Dr. W. W. Briner	To add to the Procter & Gamble Company Fund for the period September 1, 1972, through August 31, 1973	\$ 5,000.00
2. Vick Divisions Research One Bradford Road Mount Vernon, New York 10553 Dr. Willard J. Tarbet Director of Dental Research	Allocation to add to the Vick Divisions Research Grant for the period July 1, 1972, through June 30, 1973	12,000.00

Recommended Amendments to the 1971-72 Budget:

Office of Personnel

1. Resignation: Mr. Johnnie L. Reynolds, Director of Personnel at an annual salary of \$12,660.00, effective July 16, 1972, inclusive; transfer \$1,565.51 to Unallocated Other Salaries. (Mr. Reynolds has transferred to Southwestern Medical School as Director of Personnel) (RBC-89)

Anatomy (Dental Anatomy and Histology)

2. Appointment: Dr. Michael B. Birdsong (non-tenure) as Assistant Professor at an annual salary of \$13,000.00, effective July 11, 1972; transfer \$1,817.18 from Unallocated Faculty Salaries. (RBC-90)

Medicine (Roentgenology)

3. Resignation: Dr. Jess C. Galbreath (non-tenure), Professor (40% T.) at an annual salary of \$11,500.00, and Professor (40% T.) in the Department of Surgery at an annual salary of \$11,500.00, effective May 31, 1972, inclusive; transfer \$2,875.03 to Unallocated Faculty Salaries and transfer \$2,875.03 to Unallocated Faculty Salaries from Surgery. (RBC-91)

Physics, Dental Materials

4. Termination due to Death: Dr. William R. Holloway (tenure), Associate Professor at an annual salary of \$18,000.00, effective August 14, 1972; transfer \$822.60 to Unallocated Faculty Salaries. (RBC-88)

Preventive Dentistry (Community Dentistry)

5. Resignation: Dr. Dean I. Webb (non-tenure), Associate Professor at an annual salary of \$22,000.00, effective August 20, 1972; transfer \$650.51 to Unallocated Faculty Salaries. (RBC-93)

School of Dental Hygiene

6. Appointment: Miss Jean A. Cochran (non-tenure) as Instructor at an annual salary of \$9,000.00, effective August 14, 1972; transfer \$435.45 from Unallocated Faculty Salaries. (RBC-92)

7. Appointment: Miss Donna S. Hatchett (non-tenure) as Instructor at an annual salary of \$9,000.00, effective August 28, 1972; transfer \$96.75 from Unallocated Faculty Salaries. (RBC-95)

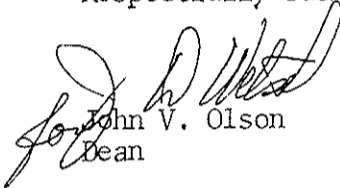
Various Departments

8. Transfer of Funds: To transfer funds to enable better utilization of existing funds. (RBC-94)

<u>From:</u>	<u>Amount</u>
Technical Service	
Maintenance and Operation	\$ 10,000.00
Unallocated Faculty Salaries	<u>159,000.00</u>
 TOTAL	 <u><u>\$169,000.00</u></u>

<u>To:</u>	
Medicine (Endodontics)	
Maintenance and Operation	\$ 2,000.00
Medicine (Periodontics)	
Maintenance and Operation	5,000.00
Pathology (Microbiology)	
Maintenance and Operation	3,000.00
Physical Plant (Building Maintenance)	
Maintenance and Operation	11,000.00
Physical Plant (Campus Security)	
Maintenance and Operation	8,000.00
Outpatient Division (General)	
Equipment	<u>140,000.00</u>
 TOTAL	 <u><u>\$169,000.00</u></u>

Respectfully submitted,


John V. Olson
Dean

THE UNIVERSITY OF TEXAS
M. D. ANDERSON HOSPITAL AND TUMOR INSTITUTE AT HOUSTON

September 22, 1972

Dr. Charles A. LeMaistre
Chancellor
The University of Texas System
Austin, Texas 78712

Dear Doctor LeMaistre:

The following docket is submitted for your approval and presentation to the Board of Regents at its meeting in Austin, Texas on October 20, 1972:

GIFTS: I recommend acceptance of the following gifts and that the appreciation of the Board be sent to the donor by the Secretary.

	<u>Donor</u>	<u>Purpose</u>	<u>Amount</u>
1.	Mr. & Mrs. Thomas D. Anderson 1122 Southwest Tower Houston, Texas 77002	Lutheran Hospital Expansion Program	100 Shares of DuPont Company Stock Valued at \$17,404.65
2.	Mr. Conrad Bering 306 Fall River Houston, Texas	Lorene Bering Memorial Fund for Education, Research & Development	\$ 5,000.00
3.	Mr. William A. Emig Trust Officer Elizabeth R. Graves Trust c/o Albuquerque National Bank Albuquerque, New Mexico	Cancer Research	\$ 7,670.39

THE UNIVERSITY OF TEXAS
M. D. ANDERSON HOSPITAL AND TUMOR INSTITUTE AT HOUSTON

FEDERAL CONTRACTS AND GRANTS
Board of Regents Meeting October 20, 1972

FEDERAL CONTRACTS AND GRANTS: The following Contracts, Grants and Amendments have been negotiated by the Business Manager, and have been signed by the President upon recommendation of the Contract or Grant Principal Investigator and the Business Manager, and approved by the Comptroller and Deputy Chancellor for Administration. I recommend your approval and ratification of signatures.

1. Modification No. 2S to National Aeronautics and Space Administration Contract NAS 9-11117 extends the contract period to July 1, 1970 through August 11, 1972, with no new funds. This contract provided funds for developmental studies in total body gamma ray spectrometry. Funds provided by this contract were expended in Harris County. This contract is under the direction of Dr. Monroe F. Jahns.
2. Department of Health, Education, and Welfare, Public Health Service, National Cancer Institute Grant No. 1 R26 CA14140-01 LB provides new funds in the amount of \$282,699.00 plus appropriate indirect costs for the period August 1, 1972 to July 31, 1973. The total grant project period for this grant is August 1, 1972 to July 31, 1977. This grant provides funds for the establishment of a headquarters at The University of Texas M. D. Anderson Hospital and Tumor Institute for the management of a national research program in colorectal cancer. The majority of the expenditures from this award will be made in Harris County. This grant is under the direction of Dr. Murray M. Copeland.
3. Department of Health, Education, and Welfare, Public Health Service, National Institute of General Medical Sciences Grant No. 5 R01 GM15597-06 GEN provides new funds in the amount of \$54,417.00 plus appropriate indirect costs for the period September 1, 1972 to August 31, 1973. The total project period for this grant is September 1, 1968 to August 31, 1973. This grant provides funds for a research project on genetic and comparative studies of enzymes. The major emphasis is on genetic variation in enzymes, with utilization of the mutant forms as markers in a variety of studies. The majority of the expenditures from this award will be made in Harris County. This grant is under the direction of Dr. Charles R. Shaw.
4. Department of Health, Education, and Welfare, Public Health Service, National Institute of Arthritis, Metabolism and Digestive Diseases Grant No. 5 R01 AM09801-08 END provides new funds in the amount of \$71,190.00 plus appropriate indirect costs for the period September 1, 1972 to August 31, 1973. The total project period for this grant is September 1, 1970 to August 31, 1975. This grant provides funds for a research project on the chemistry of luteinizing hormones. This consists of continuing studies in the sequencing of porcine luteinizing hormone subunits, sequence studies of human luteinizing hormone subunits, and studies of the carbohydrate moieties attached to these subunits. The majority of the expenditures from this award will be made in Harris County. This grant is under the direction of Dr. Darrell N. Ward.
5. Department of Health, Education, and Welfare, Public Health Service, National Cancer Institute Grant 2 R10 CA10042-06A1 CCI provides new funds in the amount of \$319,864.00 plus appropriate indirect costs for the period September 1, 1972 to August 31, 1973. The total project period for this grant is September 1, 1972 to August 31, 1975. This grant provides funds for a research project on infection in cancer patients. This is a study of patients treated for cancer in a protected environment to determine if such treatment reduces the risk of serious infection and permits the administration of more aggressive chemotherapy. The majority of the expenditures from this award will be made in Harris County. This grant is under the direction of Dr. Gerald P. Bodey.

Transfer of Funds

9. Transfer funds as indicated below to various departmental personnel and maintenance and operation appropriations to fund personnel actions taken during the latter part of the fiscal year 1971-72 and to provide funds for expenditures for operations previously not anticipated. (RBC 217)

TRANSFER TO:

<u>Department</u>	<u>Appropriation Item/Title</u>	<u>Page No.</u>	<u>Amount</u>
Reserves	Reserve for Classified Salaries	191	\$ 96,320.40
Business Office-General Accounting	Classified Personnel	9	428.59
Business Office-Data Processing	" "	11	1,591.24
Business Office-Patient Accounts	" "	12	3,320.07
Business Office-Payroll	" "	13	470.63
Anatomical Pathology	" "	28	1,083.81
Pediatrics	" "	32	6.56
Diagnostic Radiology	" "	34	184.41
Surgery	" "	43	508.90
Research Physics	" "	65	812.69
Bacteriology	" "	76	74.73
Virology	" "	97	91.82
Blood Bank	" "	121	3,179.82
Dental Services	" "	125	173.61
Insurance	" "	130	590.70
Anatomical Pathology Service	" "	137	2,276.44
Clinical Pathology Service	" "	138	20,591.41
Clinical Isotopes	" "	146	81.15
Diagnostic Radiology Service	" "	148	2,967.16
Volunteer Services	" "	152	650.84
Special Projects	" "	168	201.16
Communications	" "	169	1,235.21
Central Stores & Transportation	" "	182	282.37
Reserves	Reserve for Professional Salaries	191	8,209.79
Surgery	Clinical Assistant Surgeon (Prosthodontics-Maxillofacial)	42	150.00
Surgery	Surgeon (Head & Neck Surgery)	42	12,000.00
Clinic Administration	Clinic Administrative Assistant	115	242.16
Information Office	Science Writer	174	83.34
Office of the President	Maintenance & Operation	2	6,100.00
Office of the Vice President for Administration	" "	5	2,800.00
Business Office-Patient Accounts	" "	12	1,500.00
Business Office-Payroll	" "	13	250.00
Personnel	" "	16	1,700.00
General Administration Travel Fund	Travel	18	300.00
General Expense	Workmen's Compensation Insurance	20	4,000.00
General Expense	Official Entertainment	20	250.00
General Expense	Unemployment Comp. Ins.	20	6,000.00
Medicine	Maintenance & Operation	24	4,100.00
Anatomical Pathology	" "	27	2,700.00
Clinical Pathology	" "	29	3,400.00
Pediatrics	" "	31	1,100.00
Diagnostic Radiology	" "	33	4,800.00
Radiotherapy	" "	35	3,100.00
Surgery	" "	38	10,300.00
Grants Administration Office	" "	47	1,400.00
Office of Research	" "	48	2,000.00
Ecology	" "	56	100.00

<u>Department</u>	<u>Appropriation Item/Title</u>	<u>Page No.</u>	<u>Amount</u>
Environmental Biology	Maintenance & Operation	57	\$ 400.00
Medical Genetics	" "	59	1,300.00
Molecular Biology	" "	61	1,000.00
Research Physics	" "	63	2,000.00
Experimental Medicine	" "	68	2,500.00
Nuclear Medicine	" "	71	2,200.00
Experimental Anatomical Pathology	" "	73	900.00
Bacteriology	" "	76	200.00
Experimental Diagnostic Radiology	" "	78	3,900.00
Experimental Radiotherapy	" "	79	3,800.00
Experimental Surgery	" "	81	1,400.00
Developmental Therapeutics	" "	86	17,700.00
Epidemiology	" "	89	1,300.00
Experimental Animals	" "	91	21,800.00
Virology	" "	96	1,050.00
Office of Education	" "	100	1,600.00
Research Seminars	" "	103A	1,000.00
Tumor Institute Travel Fund	Travel	108	16,400.00
Research Medical Library	Maintenance & Operation	111	7,700.00
Clinic Administration	" "	115	900.00
Admissions	" "	119	100.00
Blood Bank	" "	121	42,800.00
Cardio-Pulmonary Function Lab.	" "	123	1,000.00
Clinic Outpatient Service	" "	124	17,700.00
Dental Services	" "	125	600.00
Food Service	" "	126	19,200.00
Insurance	" "	130	500.00
Medical Social Service	" "	133	400.00
Patient Annexes	" "	135	1,800.00
Anatomical Pathology Service	" "	136	2,500.00
Clinical Pathology Service	" "	138	10,900.00
Pharmacy	" "	140	546,000.00
Clinical Physics	" "	142	5,900.00
Clinical Isotopes	" "	145	14,800.00
Diagnostic Radiology Service	" "	147	71,800.00
Radiotherapy Service	" "	149	5,700.00
Rehabilitation Medicine Service	" "	151	400.00
Volunteer Service	" "	152	600.00
Director of Nursing Office	" "	153	1,100.00
Nursing Service Education	" "	155	700.00
Central Sterile Supply	" "	161	34,000.00
Hospital Inpatient Services - General	" "	162	17,300.00
Operating Room	" "	163	11,100.00
Special Projects	" "	168	3,000.00
Information Office	" "	174	2,100.00
Laundry	" "	175	8,700.00
Purchasing	" "	181	600.00
Central Stores & Transportation	" "	182	4,000.00
General Services Travel Fund	Travel	185	2,750.00
Physical Plant	Maintenance & Operation	188	17,168.62
Nursing Service Post-Operative Care	" "	158	2,300.00
	TOTAL		<u>\$1,150,277.63</u>

TRANSFER FROM:

<u>Department</u>	<u>Appropriation Item/Title</u>	<u>Page No.</u>	<u>Amount</u>
Office of the President	Classified Personnel	3	\$ 159.42
Office of the Director	" "	4	2,405.47

<u>Department</u>	<u>Appropriation Item/Title</u>	<u>Page No.</u>	<u>Amount</u>
Office of Vice President for Admin.	Classified Personnel	5	\$ 394.20
Business Managers Office	" "	6	4,076.21
Business Office-Grant Reporting	" "	14	6,583.30
Business Office-Internal Audit	" "	15	419.04
Personnel	" "	16	1,381.50
Medicine	" "	26	1,042.68
Clinical Pathology	" "	30	325.20
Radiotherapy	" "	36	1,467.82
Rehabilitation Medicine	" "	37	125.61
Anesthesiology	" "	45	1,848.90
Grants Administration	" "	47	285.94
Office of Research	" "	48	2,542.86
Biochemistry	" "	52	2,289.23
Biology	" "	53	44.08
Cell Biology	" "	55	395.76
Ecology	" "	56	6,185.23
Environmental Biology	" "	57	3,513.45
Medical Genetics	" "	60	2,741.15
Molecular Biology	" "	62	1,744.07
Research Isotopes	" "	66	397.83
Experimental Medicine	" "	68	2,100.83
Experimental Hematology	" "	70	3,025.54
Nuclear Medicine	" "	71	1,521.54
Cardio-Pulmonary Function Lab.	" "	72	32.00
Experimental Anatomical Pathology	" "	74	544.96
Research Clinical Pathology	" "	75	11,682.78
Experimental Pediatrics	" "	77	5,309.27
Experimental Radiotherapy	" "	80	1,802.31
Experimental Surgery	" "	82	3,800.82
Experimental Oncology	" "	83	493.82
Experimental Anesthesiology	" "	85	12,850.24
Developmental Therapeutics	" "	88	3,372.28
Epidemiology	" "	90	2,277.31
Experimental Animals	" "	92	604.71
Computer Science Lab. Inst. Biomath.	" "	95	16,053.84
Office of Education	" "	100	4,143.75
Publications	" "	105	7,014.81
Research Tumor Registry	" "	106	992.56
Research Medical Library	" "	112	3,367.94
Office of Assoc. Director-Clinic	" "	114	1,456.09
Clinic Administration	" "	115	603.21
Hospital Administration	" "	117	391.54
Anesthesiology Service	" "	118	19,684.83
Admissions	" "	119	2,437.51
Appointments	" "	120	15,732.96
Cardio-Pulmonary Function Service	" "	123	105.79
Electroencephalograph Service	" "	130	1,582.25
Food Service	" "	127	6,373.74
Inhalation Therapy	" "	129	19,509.52
Medical Records	" "	131	224.83
Medical Social Service	" "	134	4,895.14
Patient Annexes	" "	135	292.83
Pharmacy	" "	141	2,658.18
Clinical Physics	" "	141	6,604.95
Radiotherapy Service	" "	150	19,213.55
Rehabilitation Medicine Service	" "	151	8,512.34
Director of Nursing Office	" "	154	16,384.52
Nursing Service-Education	" "	155	3,108.72
Nursing Service-Clinic	" "	156	73,443.28
Nursing Service-Hospital	" "	157	232,295.76
Nursing Service-Post Operative Care Unit	" "	158	24,227.25
Nursing Service-Operating Room	" "	159	64,670.75

<u>Department</u>	<u>Appropriation Item/Title</u>	<u>Page No.</u>	<u>Amount</u>
Nursing Service-Central Sterile Supply	Classified Personnel	160	\$ 49,287.08
Development Office	" "	170	12.93
Housekeeping	" "	171	11,703.29
Infection Control Service	" "	173	303.60
Information Office	" "	174	6,865.16
Laundry	" "	175	12,278.94
Linen Room	" "	176	5,474.88
Medical Communications	" "	178	23,417.81
Print Shop	" "	180	406.97
Purchasing	" "	181	12,137.70
Police Department	" "	184	4,328.35
Physical Plant	" "	190	31,108.43
Anatomical Pathology	Professional Salaries	27	6,759.92
Pediatrics	Research Associate 001	32	1,016.10
Surgery	Assistant Surgeon (Head & Neck Surgery), Section of Head & Neck Surgery	40	20,000.00
Experimental Anatomical Pathology	Professional Salaries	73	15,300.08
Developmental Therapeutics	Internist and Professor of Medicine-Pos. 001	86	1,508.10
Developmental Therapeutics	Assistant Biochemist and Assistant Professor of Biochemistry-Pos. 002	87	6,397.89
Experimental Animals	Professional Salaries	91	10,685.61
Office of Education	" "	100	57,457.15
Publications	Editor and Professor of Medical Journalism	104	1,286.16
Purchasing	Purchasing Agent	181	205.00
Experimental Surgery	Assistant Biologist, Section of Experimental Surgery and Assistant Professor of Surgery (Biology)	81	3,733.32
Grants Administration	Supervisor of Grants Administration	47	8,933.36
Business Managers Office	Maintenance & Operation	6	400.00
Business Office-General Accounting	" "	8	900.00
Business Office-Data Processing	" "	10	14,000.00
General Expense	Social Security	20	52,000.00
Anesthesiology	Maintenance & Operation	44	1,000.00
Biology	" "	53	3,600.00
Research Isotopes	" "	66	1,000.00
Experimental Hematology	" "	70	1,000.00
Cardio-Pulmonary Function Lab.	" "	72	1,800.00
Experimental Pediatrics	" "	77	9,000.00
Experimental Oncology	" "	83	4,000.00
Experimental Anesthesiology	" "	85	6,000.00
Biomathematics	" "	93	23,000.00
Extension Studies	" "	103	5,000.00
Publications	" "	104	1,500.00
Anesthesiology Service	" "	118	13,000.00
Appointments	" "	120	1,000.00
Electroencephalograph Service	" "	130	500.00
Inhalation Therapy	" "	128	8,000.00
Medical Records	" "	131	4,800.00
Patient Care Activities	Travel	165	1,000.00
Travel Fund			
Communications	Maintenance & Operation	169	6,200.00
Development Office	" "	170	900.00
Housekeeping	" "	171	9,600.00
Infection Control Service	" "	173	2,400.00
Linen Room	" "	176	4,800.00

FEDERAL CONTRACTS AND GRANTS: (Continued)

6. Department of Health, Education, and Welfare, Public Health Service, National Cancer Institute Grant 3 P01 CA10043-02S4 NSS provides new funds in the amount of \$20,500.00 plus appropriate indirect costs for the period ending December 31, 1972. This represents a six months extension of this grant which was previously scheduled to expire June 30, 1972. The total project period of this grant is June 1, 1966 to December 31, 1972. This grant provides funds for an animal model for carcinoma of the colon and rectum. It provides for the maintenance of a strain of experimental rats which will be used as an experimental animal in the national research program in colorectal cancer. The majority of the expenditures from this award will be made in Harris County. This grant is under the direction of Dr. Nicholas G. Bottiglieri.

7. Department of Health, Education, and Welfare, Public Health Service, National Cancer Institute Revised Grant 5 R01 CA01785-20 BBKA extends this grant without additional funds to make the current period of this grant September 1, 1971 to February 28, 1973. The total project period for this grant is September 1, 1967 to February 28, 1973. This grant provides funds for a research project in characterization of plasma and urinary proteins. This project includes the study of human serum immunoglobulins, the fragmentation of proteins and the isolation and study of the fragments, and the interpretation of the data obtained in an effort to relate it to the cancer problem. The majority of the expenditures from this grant award will be made in Harris County. This grant is under the direction of Dr. Bruno Jirgensons.

8. Modification No. 6-S to National Aeronautics and Space Administration Contract No. NAS 9-7153 extends the contract period to June 1, 1967 to November 30, 1972 with no new funds. This contract provides funds for hybrid computer design and development of on-line display and processing of biomedical data from Project Apollo and follow-on space missions. The majority of expenditures from this contract will be made in Harris County. This contract is under the direction of Mr. Baker A. Mitchell, Jr.

CONTRACTS AND AGREEMENTS, NONGOVERNMENT SPONSORED, INCLUDING RESEARCH GRANTS AS DISTINGUISHABLE FROM GIFTS:

GRANTS: The following grant has been accepted on behalf of The University of Texas M. D. Anderson Hospital and Tumor Institute at Houston by the President. I recommend approval and ratification of signatures.

1. Grant No. 936 by which The Kelsey and Leary Foundation provides funds for the project "Electron Probe Microanalysis of Iodine and Calcium Distribution Patterns in Thyroid Cells" for the period September 1, 1972 through August 31, 1973 in the amount of \$29,978. This grant is under the direction of Dr. William O. Russell.

INTERAGENCY CONTRACTS: The following interagency contracts have been negotiated by the Business Manager and have been signed by the President upon recommendation of the Business Manager, and approved by the Comptroller, the Deputy Chancellor for Administration and the State Board of Control. I recommend your approval and ratification of signatures:

1. Interagency Contract IAC (72-73)-616, between The University of Texas M. D. Anderson Hospital and Tumor Institute, Performing Agency, and The University of Texas Dental Branch, Receiving Agency, whereby the Receiving Agency is authorized to reimburse to the Performing Agency a pro rata share of the costs of utilities, labor, and other costs of the operation of a joint boiler room, laundry services, and police services provided for the period September 1, 1972 to August 31, 1973. Costs under this contract are not to exceed \$140,000.00 for the period of the contract.

2. Interagency Contract No. IAC (72-73)-651, between The University of Texas M. D. Anderson Hospital and Tumor Institute, Performing Agency, and The University of Texas Nursing School, Receiving Agency, whereby the Performing Agency will provide supplies, duplicating services, photographic services, janitorial services, security services, and such other supplies and services as can be provided through established service departments and programs, at a cost not to exceed \$25,000.00 for the period September 1, 1972 to August 31, 1973.

3. Interagency Cooperative Contract IAC (72-73)-594, between The Texas Department of Corrections, Performing Agency, and The University of Texas M. D. Anderson Hospital and Tumor Institute, Receiving Agency, whereby the Performing Agency provides facilities and labor for the maintenance of dogs which are used in the research activities of The University of Texas M. D. Anderson Hospital and Tumor Institute, for the period September 1, 1972 to August 31, 1973. The per diem rate for maintenance of dogs is fifty-five cents. Costs under this contract are not to exceed \$20,000.00 for the period of the contract.

4. Interagency Contract No. IAC (72-73)-595, between the Texas Department of Corrections, Performing Agency, and The University of Texas at Houston M. D. Anderson Hospital and Tumor Institute, Receiving Agency, for the period September 1, 1972 to August 31, 1973. The Performing Agency will provide all necessary facilities for performing contract key punch and verifying services as required by the Receiving Agency, at a cost that is considerably less than the going commercial rate for such services. Costs under this contract are not to exceed \$10,000.00.

5. Interagency Contract IAC (72-73)-691, between The University of Texas M. D. Anderson Hospital and Tumor Institute, Performing Agency, and The University of Texas School of Public Health, Receiving Agency, whereby the Performing Agency provides space, utilities, and custodial services for The University of Texas School of Public Health in the Anderson-Mayfair Building, for the period September 1, 1972 to August 31, 1973, at a cost of forty-five cents per square foot per month for 5,748 square feet of space.

6. Interagency Contract IAC (72-73)-690, between The University of Texas M. D. Anderson Hospital and Tumor Institute, Performing Agency, and The University of Texas Medical School at Houston, Receiving Agency, whereby the Performing Agency will provide supplies and services to The University of Texas Medical School at Houston at cost in an amount not to exceed \$100,000.00 for the period September 1, 1972 to August 31, 1973.

BUSINESS CONTRACTS: The following contract has been negotiated by the Business Manager and has been approved by the System Comptroller, the Deputy Chancellor for Administration, and the State Board of Control. I recommend your approval and ratification of signatures:

1. Amend State Board of Control Lease Agreement UH-2221L with the Cenco Hospital and Convalescent Homes Corporation of Houston to provide for an additional 5,740 square feet of space in the Center Pavilion Hospital for research programs supported from Federal Grant Funds. Rental payment for this space is at the rate of \$.37 cents per square foot per month effective September 1, 1972, payable from grant funds.

BUDGET CHANGES: The following budget changes are submitted for your approval and presentation to the Board of Regents at its meeting in Austin, Texas on October 20, 1972.

1971-72

General Administration (Business Office, Internal Audit)

1. Resignation. Derrell F. Cleghorn, Internal Auditor, payable at the rate of \$16,000.00 per annum effective August 11, 1972. (RBC 206)

Medical Staff (Medicine)

2. Appointment. Nina Hollander, M. D., Faculty Associate in Medicine (Without Tenure), payable at the rate of \$20,000.00 per annum from the Department of Medicine effective July 15, 1972. The source of funds for this appointment is the Reserve for Professional Salaries Account. (RBC 205)

Research (Biochemistry)

3. Appointment. Morris Kaplan, Ph.D., Research Associate (Without Tenure), payable at the rate of \$10,000.00 per annum from National Science Foundation Grant TB-13650 effective July 1, 1972. (Rev. RBC 203)

Research (Developmental Therapeutics)

4. Appointment. Jeffrey A. Gottlieb, M. D., Faculty Associate in Developmental Therapeutics (Without Tenure), payable at the eighteen percent time rate of \$4,500.00 per annum from American Cancer Society Grant CI-22 effective July 1, 1972. (RBC 207)

5. Change in Title and Source of Salary. Jordan U. Gutterman, M. D., from Faculty Associate in Developmental Therapeutics, payable at the rate of \$20,000.00 per annum from Physicians Referral Service to Assistant Internist and Assistant Professor of Medicine (Without Tenure), payable at the thirty-five percent time rate of \$6,500.00 per annum from Contract PH-43-NIAID-68-949, and the sixty-five percent time rate of \$12,000.00 per annum from Contract NIH-NCI-E-72-3262, effective July 1, 1972. Dr. Gutterman will receive a fellowship award in the amount of \$6,000.00 from the American Cancer Society. (RBC 208)

6. Appointment. Giora M. Mavligit, M. D., Assistant Internist and Assistant Professor of Medicine (Without Tenure), payable at the rate of \$19,000.00 per annum from Public Health Service Grant 5-P01-CA-11520 effective August 1, 1972. (RBC 210)

Research (Virology)

7. Increase in Salary. Koshi Maruyama, Ph.D., Associate Virologist and Assistant Professor of Virology (Without Tenure), (Fifth Year Leukemia Society Scholar) from \$19,000 per annum payable from a Leukemia Society Scholarship and \$750.00 per annum payable from PHS Contract PH-43-65-604 to \$20,000 per annum payable from a Leukemia Society Scholarship and \$750.00 per annum payable from PHS Contract PH-43-65-604 effective July 1, 1972. The scholarship provides for a \$1,000.00 increase per year to be effective on July 1. (RBC 211)

General Services (Housekeeping)

8. Appointment. Maxine L. Miller, Coordinator of Housekeeping Services, payable at the rate of \$8,500.00 per annum effective August 1, 1972. The source of funds for this appointment is the Reserve for Professional Salaries Account. (RBC 209)

<u>Department</u>	<u>Appropriation Item/Title</u>	<u>Page No.</u>	<u>Amount</u>
Medical Communications	Maintenance & Operation	177	\$ 19,500.00
Police Department	" "	184	10,000.00
Reserves	" "	191	<u>8,000.00</u>
	TOTAL		<u>\$1,150,277.63</u>

ENVIRONMENTAL SCIENCE PARK

Transfer of Funds

10. Transfer funds in the amount of \$664.46 to the Classified Personnel Appropriation from the Maintenance and Operation Appropriation, to provide funds for personnel actions not previously anticipated. (RBC 9)

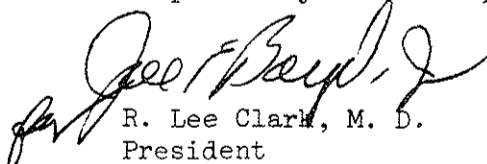
TRAVEL: I recommend your approval for travel in excess of twenty-nine days for the employee listed below. This travel has been approved by the Office of the Chancellor:

1. Charles Walter, Ph.D., Associate Biomathematician and Associate Professor of Biomathematics and Biochemistry, Department of Biomathematics, for the period July 1, 1972 through August 16, 1972 to Seattle, Washington; New York City; and Moscow, USSR. In Seattle, Washington he will attend the Summer Institute at Battelle Research Center and consult with Dr. W. Parson regarding apparatus for measuring density change. In New York City he will confer with Dr. M. Dekker of Marcel Dekker Publishers regarding a book to be published in 1973. Thereafter, Dr. Walter will go to Moscow, USSR where he will attend the IV International Biophysics Congress and attend sessions. He will also confer with E. E. Sel'kov at the Biophysics Institute. Travel expenses will be reimbursed from institutional funds and a National Science Foundation grant.

QUARTERLY REPORT OF GIFTS OF LESS THAN \$5,000.00:

The quarterly report of gifts of less than \$5,000.00 for the period ending August 31, 1972 has been filed with the Office of the Board of Regents where it is available for reference.

Respectfully submitted,


R. Lee Clark, M. D.
President

THE UNIVERSITY OF TEXAS
GRADUATE SCHOOL OF BIOMEDICAL SCIENCES AT HOUSTON

September 22, 1972

Dr. Charles A. LeMaistre
Chancellor
The University of Texas System
Austin, Texas 78712

Dear Doctor LeMaistre:

The following docket is submitted for your approval and presentation to the Board of Regents at its meeting in Austin, Texas on October 20, 1972:

GIFTS: I recommend acceptance of the following gift and that the appreciation of the Board be sent to the donor by the Secretary.

	<u>Donor</u>	<u>Purpose</u>	<u>Amount</u>
1.	Schiff Bio-Food Products, Inc. Moonachie Avenue Moonachie, New Jersey 07074	Teaching of Nutrition by Division of Continuing Education	\$ 5,000.00*

* No Letter of Transmittal Received

THE UNIVERSITY OF TEXAS
GRADUATE SCHOOL OF BIOMEDICAL SCIENCES AT HOUSTON

FEDERAL CONTRACTS AND GRANTS
Board of Regents Meeting October 20, 1972

FEDERAL CONTRACTS AND GRANTS: The following Contracts, Grants and Amendments have been negotiated by the Business Manager, and have been signed by the Dean upon recommendation of the Contract Director, and the Business Manager, and approved by the Comptroller and Deputy Chancellor for Administration. I recommend your approval and ratification of signatures.

1. Department of Health, Education, and Welfare, Public Health Service, National Institute of Child Health and Human Development Grant No. 1 R01 HD07021-01 GEN provides new funds in the amount of \$27,393.00 for the period September 1, 1972 to August 31, 1973. The total project period for this grant is September 1, 1972 to August 31, 1975. This grant provides funds for a research project on gene expression in embryogenesis. Efforts will be made to demonstrate and isolate substances present in the early embryo which regulate specific gene expression. The majority of the expenditures from this award will be made in Harris County. This grant is under the direction of Dr. David A. Wright.

2. Department of Health, Education, and Welfare, Office of Education Grant No. OEG-0-72-5372 provides new funds in the amount of \$29,466.00 for the period June 30, 1972 to June 30, 1973. This grant provides funds for a model demonstration project relating to handicapped children's early education programs. This project will be for children with speech and hearing handicaps and will be conducted by the staff of the Division of Communicative Disorders of the Graduate School of Biomedical Sciences. The majority of the expenditures from this award will be made in Harris County. This grant is under the direction of Dr. Tina Bangs.

BUDGET CHANGES: The following budget changes are submitted for your approval and presentation to the Board of Regents at its meeting in Austin, Texas on October 20, 1972.

1971-72

GRADUATE STUDIES DIVISION

Educational and General

1. Leave Without Pay. Vivian K. Leitner, Research Associate (Without Tenure), payable at the rate of \$12,000.00 per annum effective July 11, 1972. (RBC 32)
2. Appointment. Joseph DeSimone, Ph.D., Research Associate (Without Tenure), payable at the rate of \$14,000.00 per annum from Grant GM 19513-01 effective July 1, 1972. (RBC 34)
3. Appointment. Elroy T. Cantrell, Ph.D., Research Associate (Without Tenure), payable at the rate of \$12,000.00 per annum from Public Health Service Grant 1 P01 GM 19513-01 (B-4) effective August 1, 1972. (RBC 36)
4. Appointment. Paul A. Ballonoff, Ph.D., Research Associate (Without Tenure), payable at the rate of \$12,000.00 per annum from budgeted position effective August 1, 1972. (RBC 37)
5. Extended Leave Without Pay. Thomas S. Matney, Ph.D., Professor and Graduate Administrator (With Tenure), payable at the rate of \$25,500.00 per annum effective August 28, 1972. (RBC 35)
6. Appointment. Masatoshi Nei, Ph.D., Professor (With Tenure), payable at the rate of \$27,500.00 per annum from budgeted position effective August 1, 1972. (RBC 39)

Transfer of Funds

7. Transfer funds as indicated below to travel and maintenance and operation appropriations to provide funds for operations not previously anticipated. (RBC 42)

TRANSFER TO:

<u>Department</u>	<u>Appropriation Item</u>	<u>Page No.</u>	<u>Amount</u>
Office of the Dean	Maintenance and Operation	5	\$16,000.00
Office of the Dean	Travel	5	350.00
Business Office	Maintenance and Operation	7	1,150.00
General Expense	Official Entertainment	8	150.00
General Expense	Unemployment Compensation	8	200.00
	Insurance		
		TOTAL	<u>\$17,850.00</u>

TRANSFER FROM:

<u>Department</u>	<u>Appropriation Item</u>	<u>Page No.</u>	<u>Amount</u>
Educational and General	Maintenance and Operation	9	<u>\$17,850.00</u>

DIVISION OF CONTINUING EDUCATIONEducational and General

8. Appointment. Vilma T. Falck, Ph.D., Associate Professor (Without Tenure), payable at the rate of \$21,000.00 per annum from Grant 5 G03-RM-00007-04, effective July 1, 1972. (RBC 33)

Transfer of Funds

9. Transfer funds in the amount of \$5,700.00 to the Reserve for Classified Salaries from the Office of the Dean-Classified Personnel Account to provide funds for operations not previously anticipated. (RBC 40)

10. Transfer funds in the amount of \$6,600.00 to the Educational and General-Maintenance and Operation from Communications-Maintenance and Operations Account to provide funds for operations not previously anticipated. (RBC 41)

DIVISION OF COMMUNICATIVE DISORDERSTransfer of Funds

11. Transfer funds as indicated below to Travel, Classified Personnel and Maintenance and Operation Appropriations to provide funds for operations not previously anticipated. (RBC 43)

TRANSFER TO:

<u>Department</u>	<u>Appropriation Item</u>	<u>Amount</u>
Physical Plant	Classified Personnel	\$3,500.00
Office of the Director	Travel	350.00
Physical Plant	Maintenance and Operation	<u>4,500.00</u>
	TOTAL	<u>\$8,350.00</u>

TRANSFER FROM:

<u>Department</u>	<u>Appropriation Item</u>	<u>Amount</u>
Reserves	Reserve for Maintenance and Operation	<u>\$8,350.00</u>

QUARTERLY REPORT OF GIFTS OF LESS THAN \$5,000.00

The quarterly report of gifts of less than \$5,000.00 for all divisions for the period ending August 31, 1972 has been filed with the Office of the Board of Regents where it is available for reference.

Respectfully submitted,



Alfred G. Knudson, Jr., M.D., Ph.D.
D E A N

THE UNIVERSITY OF TEXAS
SCHOOL OF PUBLIC HEALTH AT HOUSTON

September 22, 1972

Dr. Charles A. LeMaistre
Chancellor
The University of Texas System
Austin, Texas 78712

Dear Doctor LeMaistre:

The following docket is submitted for your approval and presentation to the Board of Regents at its meeting in Austin, Texas on October 20, 1972:

GIFTS: I recommend acceptance of the following gift and that the appreciation of the Board be sent to the donor by the Secretary.

	<u>Donor</u>	<u>Purpose</u>	<u>Amount</u>
1.	Houston Foundation Mr. Wm. A. Kirkland, Chairman First City National Bank Bldg. Houston, Texas 77002	Early Prevention of Individual Violence Project	\$10,028.00*

* No Letter of Transmittal Received

THE UNIVERSITY OF TEXAS
SCHOOL OF PUBLIC HEALTH AT HOUSTON

FEDERAL CONTRACTS AND GRANTS
Board of Regents Meeting October 20, 1972

FEDERAL CONTRACTS AND GRANTS: The following Contracts, Grants and Amendments have been negotiated by the Business Manager, and have been signed by the Dean upon recommendation of the Contract Director, and the Business Manager, and approved by the Comptroller and Deputy Chancellor for Administration. I recommend your approval and ratification of signatures.

1. Department of Health, Education, and Welfare, Public Health Service, National Center for Health Services Research and Development Grant No. 1 F03 HS52710-01 HST provides new funds in the amount of \$1,000.00 for the period March 1, 1972 to February 28, 1973. This grant provides funds as a supply allowance for trainee Andrew B. James. The majority of expenditures from this award will be made in Harris County. This grant is under the direction of Dr. Ralph F. Frankowski.
2. Department of Health, Education, and Welfare, Public Health Service, National Center for Health Services Research and Development Grant No. 5 K02 HS16403-02 HST provides new funds in the amount of \$28,984.00 for the period July 1, 1972 to June 30, 1973. The total project period for this grant is July 1, 1971 to June 30, 1976. This grant provides funds as a Research Scientist Development Award - Type II for Dr. Jay H. Glasser for quantitative methods in health services research. The majority of the expenditures from this award will be made in Harris County. This grant is under the direction of Dr. Reuel A. Stallones.
3. Department of Health, Education, and Welfare, Public Health Service, Division of Allied Health Manpower Grant No. 5 E02 AH00016-04 NCR provides new funds in the amount of \$145,400.00 for the period July 1, 1972 to June 30, 1973. This is a formula grant to the School of Public Health, which provides funds for the general training needs of the institution. The majority of expenditures from this award will be made in Harris County. This grant is under the direction of Dr. Reuel A. Stallones.

BUDGET CHANGES: The following budget changes are submitted for your approval and presentation to the Board of Regents at its meeting in Austin, Texas on October 20, 1972.

1971-72

Teaching, Service and Research (Health Services Administration)

1. Appointment. Constantino Sakellarides, M. D., Assistant Research Epidemiologist (Without Tenure), payable at the seventy-five percent rate of \$12,000.00 per annum effective June 10, 1972. The source of funds for this appointment is the Reserve for Professional Salaries Account. (Rev. RBC 109)
2. Appointment. Fongee Jeu, Research Associate, M.S.N. (Without Tenure), payable at the fifty percent time rate of \$6,000.00 per annum from National Institutes of Health Contract NIH-DNU-71-4073, effective August 1, 1972. (RBC 127)
3. Appointment. Robert H. Winter, Research Associate (Without Tenure), payable at the fifty percent time rate of \$4,500.00 per annum from National Institutes of Health Contract NIH-DAHM-71-4063, effective August 17, 1972. (RBC 128)
4. Increase in Salary. Jay H. Glasser, Ph.D., Associate Professor of Biometry (With Tenure), from the rate of \$24,000.00 per annum to the rate of \$24,750.00 per annum from Grant 5-102-HS-16403-02 effective July 1, 1972. This increase is effective with the beginning of the second year of a Research Scientist Development Award with the additional responsibilities provided under this award for Dr. Glasser. (RBC 129)

Teaching, Service and Research (Institute of Environmental Health)

5. Resignation. Harold E. Eitzen, Ph.D., Assistant Research Environmental Scientist (Without Tenure), payable at the fifty percent time rate of \$8,500.00 per annum from General Funds and the fifty percent time rate of \$8,500.00 per annum from NASA Contract NAS 9-12640 effective August 28, 1972. (RBC 125)

Teaching, Service and Research (Urban Health)

6. Appointment. Geoffrey B. Stanford, M. D., Associate Research Biomedical Scientist (Without Tenure), payable at the rate of \$20,000.00 per annum effective August 1, 1972. The source of funds for this appointment is the Reserve for Professional Salaries Account. (RBC 126)

Transfer of Funds

7. Transfer funds as indicated below to various departmental personnel and Maintenance and Operation appropriations to fund personnel actions taken during the latter part of the fiscal year 1971-72 and to provide funds for expenditures for operations previously not anticipated. (RBC 131)

TRANSFER TO:

<u>Department</u>	<u>Appropriation Item</u>	<u>Page No.</u>	<u>Amount</u>
Office of the Dean	Maintenance and Operation	4	\$ 9,100.00
Business Office	" "	6	15.00
General Expense	Memberships	7	1,100.00
Library Services	Maintenance and Operation	8	4,600.00
Health Services Administration	" "	13	4,700.00
International Health	" "	17	1,300.00
Institute of Environmental Health	" "	19	21,000.00
Infectious Diseases	" "	22	21,500.00
Population Studies	" "	25	6,500.00
Urban Health	" "	27	9,600.00
Police Department	" "	31	2,200.00
Physical Plant	" "	32	61,000.00
Reserves	Reserve for Classified Salaries	34	13,000.00
		TOTAL	<u>\$155,615.00</u>

TRANSFER FROM:

<u>Department</u>	<u>Appropriation Item</u>	<u>Page No.</u>	<u>Amount</u>
Office of the Dean	Professional Salaries	4	\$ 9,600.00
Office of the Dean	Classified Personnel	4	7,000.00
Chronic Diseases	Professional Salaries	11	6,000.00
Health Services Administration	Professional Salaries	13	4,000.00
International Health	Professional Salaries	17	9,000.00
Institute of Environmental Health	Professional Salaries	19	7,500.00
Institute of Environmental Health	Classified Personnel	19	23,500.00
Infectious Diseases	Professional Salaries	22	9,000.00
Population Studies	Professional Salaries	25	6,000.00
Population Studies	Classified Personnel	25	8,000.00
Urban Health	Professional Salaries	27	2,000.00
Physical Plant	Classified Personnel	32	42,000.00
Reserves	Reserve for Professional Salaries	34	22,015.00
		TOTAL	<u>\$155,615.00</u>


Adjunct Faculty Appointments: The following Adjunct Faculty appointments without salary and without tenure have been recommended by the Dean and approved by the Chancellor.

1. Charles E. Fuller, D.V.M., M.P.H., Adjunct Associate Professor of Environmental Health
2. James Lee McQueen, D.V.M., M.P.H., Dr.P.H., Adjunct Associate Professor of Environmental Health
3. Bennie C. Wooley, Ph.D., Adjunct Associate Professor of Medical Microbiology

QUARTERLY REPORT OF GIFTS OF LESS THAN \$5,000.00

The quarterly report of gifts of less than \$5,000.00 for the period ending August 31, 1972 has been filed with the Office of the Board of Regents where it is available for reference.

Respectfully submitted,


 Reuel A. Stallones, M.D., M.P.H.
 D E A N

THE UNIVERSITY OF TEXAS NURSING SCHOOL
(SYSTEM-WIDE)
Austin - El Paso - Fort Worth - Galveston - Houston - San Antonio

September 19, 1972

Chancellor Charles A. LeMaistre
The University of Texas System
Austin, Texas

Dear Chancellor LeMaistre:

The following docket is submitted for your approval and presentation to the Board of Regents at its next meeting in Austin on October 20, 1972:

GIFTS: The following gift has been received by the Nursing School. I recommend acceptance and that the appreciation of the Board of Regents be sent the donor by the Secretary:

<u>Donor</u>	<u>Purpose and Condition</u>	<u>Amount</u>
1. Houston Endowment Inc. P.O. Box 52338 Houston, Texas	Funds to be used for fellowships for students in the Nursing School and shall bear the name of "Mary Gibbs Jones Fellowships"	\$25,000

GRANTS (NON-GOVERNMENTAL)

1. Grant from the Esso Education Foundation which provides \$71,185 for the support of a project entitled "Multimedia Learning of Clinical Patient Assessment" for the period July 1, 1972 through June 30, 1974. An amount of \$27,125 has been received which represents the first installment on the grant. The project will be directed by Mrs. Doreen J. Wise, Assistant Professor.

CONTRACTS AND AGREEMENTS (OTHER)

1. Lease U-2495L - Ft. Worth which provides for classroom, office and library space to be used by the Undergraduate Nursing School in Tarrant County. The Lessor is the Tarrant County Hospital District. The lease is for the period September 1, 1972 through August 31, 1974 at a rate of \$4,395.00 per month.

THE UNIVERSITY OF TEXAS NURSING SCHOOL
(SYSTEM-WIDE)
Austin - El Paso - Fort Worth - Galveston - Houston - San Antonio

FEDERAL CONTRACTS AND GRANTS

October 20, 1972

1. The Department of Health, Education, and Welfare, Public Health Service, Bureau of Health Manpower Education, Grant B 7 53 9013 10 1, provides an additional amount of \$21,386 for the period July 1, 1972 through June 30, 1973 for the support of the Nursing Student Loan Program. Loans in estimated amounts of \$12,404 will be made in Travis County and \$8,982 in El Paso County.

INTERAGENCY CONTRACTS

1. Interagency Contract No. IAC (72-73) - 575, beginning September 1, 1972 and ending August 31, 1973, between The University of Texas Nursing School (System-wide) and The University of Texas Medical School at San Antonio whereby San Antonio Medical School will provide general stores supplies, telephone and mail services, duplicating, art work, photographic services and such other needed supplies and services as can be provided through established service departments. The total amount of this contract shall not exceed \$35,000.
2. Interagency Contract No. IAC (72-73) - 576, beginning September 1, 1972 and ending August 31, 1973, between The University of Texas Nursing School (System-wide) and The University of Texas Medical School at San Antonio whereby the San Antonio Medical School will provide utilities and maintenance for the temporary facilities. The total amount of the contract shall not exceed \$36,000.
3. Interagency Contract No. (72-73) - 590, beginning September 1, 1972 and ending August 31, 1973, between The University of Texas Nursing School (System-wide) and The University of Texas Medical Branch at Galveston whereby the Galveston Medical Branch will provide for custodial services, maintenance and utilities for the facility. The total amount of the contract shall not exceed \$34,697.40.
4. Interagency Contract No. (72-73) - 591, beginning September 1, 1972 and ending August 31, 1973, between The University of Texas Nursing School (System-wide) and The University of Texas Medical Branch at Galveston whereby the Galveston Medical Branch will provide general stores supplies, telephone and postage, photography services, art work, duplication, and such other needed supplies and services as the Nursing School may consider necessary to its operation. The total amount of this contract shall not exceed \$7,500.
5. Interagency Contract No. (72-73) - 650, beginning September 1, 1972 and ending August 31, 1973, between The University of Texas Nursing School (System-wide) and The University of Texas at Arlington whereby The University of Texas at Arlington will provide general stores supplies, telephone and postage, photography services, art work, duplication, and other supplies and services which the Nursing School considers necessary to its operation. The total amount of this contract shall not exceed \$7,500.
6. Interagency Contract No. (72-73) - 651, beginning September 1, 1972 and ending August 31, 1973, between The University of Texas Nursing School (System-wide) and The University of Texas M.D. Anderson Hospital and Tumor Institute at Houston (the Performing Agency) whereby the Performing Agency will provide general stores supplies, duplicating services, photographic services, janitorial services, security services, and such other supplies and services as can be provided through established service departments. The total amount of this contract shall not exceed \$25,000.

RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Nursing School - System Offices

Transfer of Funds

1. Amount of Transfer - \$1,000.00

To: Maintenance, Operation and Equipment

From: Planning for Fort Worth Nursing School

To provide funds for operation of System Offices for the remainder of Fiscal Year 1971-72.
(RBC# N-186)

2. Amount of Transfer - \$1,500.00

To: Maintenance, Operation and Equipment

From: Clinical Nursing School at Galveston

To provide funds for System Offices for the remainder of Fiscal Year 1971-72.
(RBC# N-187)

Undergraduate Nursing School in Tarrant County

The following academic appointment was made for the 1972 Summer Session:

<u>Title & Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
Instructor				
1. Nancy G. Ellis-Anwyl (RBC# N-172)	7/16 - 8/31	100	\$11,500	\$1,916

Source of Funds: Summer Session Teaching Salaries

Clinical Nursing School at Galveston

The following academic appointments were made for the 1972 Summer Session:

<u>Title & Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
Assistant Professor				
1. Joyce Rader (RBC# N-110)	7/16 - 8/31	100	\$15,000	\$2,500
2. Janyce Rader (RBC# N-111)	7/16 - 8/31	100	15,000	\$2,500
3. Kathryn Jewell (RBC# N-109)	7/16 - 8/31	100	12,000	2,000

Source of Funds: Summer Session Teaching Salaries

Clinical Nursing School at Galveston (continued)

<u>Title & Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
Instructor 4. Clara Milko (RBC# N-176)	7/16 - 8/31	100	\$12,500	\$2,083

Source of Funds: Pediatric Nurse Practitioner Contract

Transfer of Funds

5. Amount of Transfer - \$850.00

To: Wages

From: Summer Session Teaching Salaries

To provide funds for wages for August, 1972
(RBC# N-189)

Houston Nursing Program

The following academic appointment was made for the 1972 Summer Session:

<u>Title & Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
Assistant Professor 1. Frances Moncure (RBC# N-161)	7/16 - 8/31	100	\$15,000	\$2,500

Source of Funds: Planning for Houston Nursing School

Clinical Nursing School at San Antonio

The following academic appointments were made for the 1972 Summer Session:

<u>Title & Name</u>	<u>Period of Appointment</u>	<u>% Time</u>	<u>Academic Rate</u>	<u>Summer Stipend</u>
Instructor 1. Jo Lorraine Norton (RBC# N-181)	8/7 - 8/31	100	\$11,000	\$ 986
2. Frecia Taylor (RBC# N-182)	8/7 - 8/31	100	11,000	\$ 986

Source of Funds: Summer Session Teaching Salaries

THE UNIVERSITY OF TEXAS NURSING SCHOOL
(SYSTEM-WIDE)
Austin - El Paso - Fort Worth - Galveston - Houston - San Antonio

AMENDMENTS TO THE 1972-73 OPERATING BUDGET

October 20, 1972

Undergraduate Nursing School at Austin

1. Appoint Carolyn M. Bell (non-tenure) as Assistant Professor, at a salary rate of \$12,000 for 9 months, effective September 1, 1972. Source of Funds: Capitation Grant NU-01360-01. (RBC# N-7)
2. Appoint Darlene Fennell (non-tenure) as Instructor, at a salary rate of \$11,000 for 9 months, effective September 1, 1972. Source of Funds: Teaching Salaries - Undergraduate Nursing School at Austin. (RBC# N-8)
3. Appoint Beverly Jeanne Leonard (non-tenure) as Instructor, at a salary rate of \$11,000 for 9 months, effective September 1, 1972. Source of Funds: Teaching Salaries - Undergraduate Nursing School at Austin. (RBC# N-9)
4. Appoint Susan P. Juarez (non-tenure) as Instructor, at a salary rate of \$11,000 for 9 months, effective September 1, 1972. Source of Funds: Teaching Salaries - Undergraduate Nursing School at Austin. (RBC# N-10)

Undergraduate Nursing School in Tarrant County

1. Change the status of Myrna Rae Pickard, (tenure) Associate Dean and Professor, from one-half time to full time, at a salary rate of \$18,700 for 12 months, effective September 1, 1972. Source of Funds: Administrative and Professional Salaries. (RBC# N-26)

Transfer of Funds

2. Amount of Transfer - \$6,200

To: Administrative and Professional Salaries

From: Unallocated Account - System Offices

To provide funds for appointment of Myrna Rae Pickard, Associate Dean and Professor, Undergraduate Nursing School in Tarrant County, on a full-time basis.
(RBC# N-25)

Clinical Nursing School at Galveston

1. Appoint Dorothy Greider (non-tenure) as Instructor, at a salary rate of \$11,000 for 9 months, effective September 1, 1972. Source of Funds: Teaching Salaries - Clinical Nursing School at Galveston. (RBC# N-29)
2. Appoint Hazelann Tateosian (non-tenure) as Instructor, at a salary rate of \$12,000 for 9 months, effective September 1, 1972. Source of Funds: Teaching Salaries - Clinical Nursing School at Galveston. (RBC# N-30)

Clinical Nursing School at San Antonio

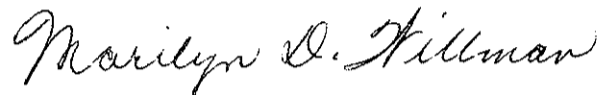
1. Appoint Evelyn Anderson (non-tenure) as Assistant Professor, at a salary rate of \$14,000 for 9 months, effective September 1, 1972. Source of Funds: Teaching Salaries - Clinical Nursing School at San Antonio. (RBC# N-19)

2. Appoint Linda Ann Molinaro (non-tenure) as Assistant Professor, at a salary rate of \$12,000 for 9 months, effective September 1, 1972. Source of Funds: Teaching Salaries - Clinical Nursing School at San Antonio. (RBC# N-20)

3. Appoint Sharon Ferguson (non-tenure) as Instructor, at a salary rate of \$11,000 for 9 months, effective September 1, 1972. Source of Funds: Teaching Salaries - Clinical Nursing School at San Antonio. (RBC# N-21)

4. Appoint Pamela Messer (non-tenure) as Assistant Instructor, at a salary rate of \$9,000 for 9 months, effective September 1, 1972. Source of Funds: Teaching Salaries - Clinical Nursing School at San Antonio. (RBC# N-22)

Sincerely yours,



Marilyn D. Willman
Dean

LAND AND INVESTMENT REPORT
Meeting of October 20, 1972

INDEX	PAGE L & I REPORT
I. PERMANENT UNIVERSITY FUND	
A. INVESTMENT MATTERS - MONTH ENDED JULY 31, 1972	
1. Report on Securities Transactions	2
2. Bond Exchange Detail	6
3. Cash Statement - Permanent Fund and Available Fund	15
B. INVESTMENT MATTERS - MONTH ENDED AUGUST 31, 1972	
4. Report on Securities Transactions	17
5. Bond Exchange Detail	20
6. Cash Statement - Permanent Fund and Available Fund	21
II. TRUST AND SPECIAL FUNDS	
A. INVESTMENT MATTERS - MONTH ENDED JULY 31, 1972	
1. Report on Securities Transactions	23
2. Securities Transactions Detail	27
B. INVESTMENT MATTERS - MONTH ENDED AUGUST 31, 1972	
3. Report on Securities Transactions	37
4. Securities Transactions Detail	40

LAND AND INVESTMENT REPORT

For Month Ended July 31, 1972

I. PERMANENT UNIVERSITY FUND

PERMANENT UNIVERSITY FUND - INVESTMENT MATTERS.--

REPORT ON SECURITIES TRANSACTIONS.--The following securities transactions have been made for the Permanent University Fund in July, 1972. The Associate Deputy Chancellor for Investments, Trusts and Lands recommends approval by the Board of Regents of these transactions.

COMPARISON
SUMMARY OF ASSETS

SECURITY	BOOK VALUE 8/31/71	BOOK YIELD 8/31/71	BOOK VALUE 7/31/72	BOOK YIELD 7/31/72
<u>DEBT SECURITIES:</u>				
U. S. Government Obligations--				
Treasury Bonds	\$107,723,291.67	4.26%	\$105,470,752.89	4.32%
Government Agencies	5,438,875.36	6.81	24,842,822.28	6.91
FHA Mortgages	<u>15,622,444.51</u>	<u>6.83</u>	<u>15,705,625.62</u>	<u>6.86</u>
TOTAL - U. S. Government Obligations	<u>128,784,611.54</u>	<u>4.68</u>	<u>146,019,200.79</u>	<u>5.03</u>
Corporate Bonds	<u>234,360,279.62</u>	<u>4.91</u>	<u>233,735,792.28</u>	<u>4.93</u>
TOTAL - DEBT SECURITIES	<u>363,144,891.16</u>	<u>4.83</u>	<u>379,754,993.07</u>	<u>4.97</u>
<u>EQUITY SECURITIES:</u>				
Convertible Debentures	14,933,307.87	4.97	10,499,040.32	5.24
Convertible Preferred Stocks	15,848,192.03	4.16	15,848,192.03	4.16
Common Stocks	<u>184,688,881.95</u>	<u>4.30</u>	<u>221,051,630.83</u>	<u>4.36</u>
TOTAL - EQUITY SECURITIES	<u>215,470,381.85</u>	<u>4.34</u>	<u>247,398,863.18</u>	<u>4.38</u>
TOTAL - LONG TERM INVESTMENTS	<u>578,615,273.01</u>	<u>4.65</u>	<u>627,153,856.25</u>	<u>4.74</u>
<u>CASH & EQUIVALENT:</u>				
Commercial Paper	15,750,000.00	<u>5.45</u>	-0-	
Investment Transactions--				
Accounts Receivable	-0-		510.75	
Cash	<u>483,744.55</u>		<u>804,453.58</u>	
TOTAL - CASH & EQUIVALENT	<u>16,233,744.55</u>		<u>804,964.33</u>	
TOTAL - SECURITIES, CASH & EQUIVALENT	<u>\$594,849,017.56</u>	<u>4.67%</u>	<u>\$627,958,820.58</u>	<u>4.73%</u>

SUMMARY OF TRANSACTIONS
July 31, 1972

	<u>Cost</u>		<u>Current Yield</u>
Purchases:			
Corporate Bonds	\$ 86,852.87		7.46%
Common Stocks	<u>7,515,025.70</u>		<u>4.36</u>
TOTAL LONG TERM PURCHASES	<u>\$ 7,601,878.57</u>		<u>4.40%</u>
	<u>Proceeds</u>	<u>Gain or (Loss)</u>	<u>Yield</u>
Sales:			
U. S. Government Obligations--			
GNMA Principal Payments	\$ 63,506.97	(\$ 1,306.13)	7.37%
FHA Mortgages	53,246.69	-0-	6.86
Corporate Bonds	43,840.96	(1,283.99)	5.81
Convertible Debentures	<u>2,463,600.00</u>	<u>253,839.78</u>	<u>4.86</u>
TOTAL LONG TERM SALES	<u>\$ 2,624,194.62</u>	<u>\$ 251,249.66</u>	<u>4.98%</u>

BOND EXCHANGES

Par Exchanged	Increase in Annual Income
\$5,942,000	\$20,670.54

PERMANENT UNIVERSITY FUND BOOK VALUE

June 30, 1972 Balance	\$626,185,071.30
Additions (July, 1972)	
Realized Net Gain or (Loss) on Security Transactions	\$ 251,249.66
From General Land Office	<u>1,522,499.62</u>
July 31, 1972 Balance	<u>\$627,958,820.58</u>

INVESTMENTS ACQUIRED

Par Value or No. Shares	Description	Price	Total Net Cost	Current Yield
<u>CORPORATE BONDS:</u>				
\$ 36,000	Diamond State Telephone Co. Debs., 4-3/4%, due 4/1/94	\$ 71.982	\$ 25,913.13	7.35%
15,000	Florida Power Corp. 1st Mtge., 4-1/4%, due 5/1/92	68.738	10,310.70	7.25
42,000	Great Northern Railway Co. Gen. Mtge., 2-5/8%, due 1/1/10	37.699	15,833.52	7.75
3,000	Pacific Tel. & Tel. Co. Debs., 4-5/8%, due 5/1/00	69.804	2,094.12	7.14
46,000	Texaco Inc. Notes, 4-1/2%, due 12/15/89	71.09	32,701.40	7.50
TOTAL - Corporate Bonds			<u>86,852.87</u>	<u>7.46</u>
<u>COMMON STOCKS:</u>				
38,500 Shs.	Florida Power & Light Company, 2-for-1 split	--	--	--
15,000 "	General Telephone & Electronics Corp.	27.00	405,000.00	5.63
200 "	International Business Machines Corp.	399.275	79,855.00	1.35
118,500 "	Lone Star Gas Company	30.32	3,593,170.80	4.49
18,300 "	Manufacturers Hanover Corporation	32.75	599,662.20	4.80
17,300 "	Minnesota Mining & Manufacturing Company, 2-for-1 split	--	--	--
10,000 "	Mobil Oil Corporation	58.25	582,500.00	4.46
54,900 "	Safeway Stores, Inc.	35.63	1,955,837.70	3.80
6,500 "	Union Carbide Corporation	46.00	299,000.00	4.35
TOTAL - Common Stocks			<u>7,515,025.70</u>	<u>4.36</u>
TOTAL - LONG TERM INVESTMENTS			<u>7,601,878.57</u>	<u>4.40</u>
<u>BONDS EXCHANGED IN:</u>				
\$5,942,000	See Bond Exchange Schedule for Detail		<u>5,185,798.13</u>	<u>5.02</u>
TOTAL - INVESTMENTS ACQUIRED			<u>\$12,787,676.70</u>	<u>4.65%</u>

INVESTMENTS DISPOSED OF

Par Value or No. Shares	Description	Price	Total Net Proceeds	Gain or (Loss)	Yield
<u>U. S. GOVERNMENT OBLIGATIONS:</u>					
\$ 63,506.97	GNMA, Various Pools	\$100.00	\$ 63,506.97	(\$ 1,306.13)	7.37%
	FHA Mortgages				
	Principal Payments	100.00	<u>53,246.69</u>	<u>-0-</u>	<u>6.86</u>
	TOTAL - U. S. Government Obligations		<u>116,753.66</u>	(<u>1,306.13</u>)	<u>7.14</u>
<u>CORPORATE BONDS:</u>					
1,000.00	American Tel. & Tel. Co. Debs., 5-1/8%, due 4/1/01	75.43	754.30	(250.07)	7.15
34,000.00	Peoples Gas Light & Coke Co. 1st & Ref. Mtge., 5-3/8%, due 7/15/91	100.00	34,000.00	1,233.04	5.375
11,000.00	Southwestern Bell Tel. Co. Debs., 5-7/8%, due 6/1/03	82.61	<u>9,086.66</u>	(<u>2,266.96</u>)	<u>7.30</u>
	TOTAL - Corporate Bonds		<u>43,840.96</u>	(<u>1,283.99</u>)	<u>5.81</u>
<u>CONVERTIBLE DEBENTURES:</u>					
2,176,000.00	Houston Lighting & Power Co. Conv. Debs., 5-1/2%, due 2/1/85	113.22	<u>2,463,600.00</u>	<u>253,839.78</u>	<u>4.86</u>
	TOTAL - LONG TERM INVESTMENTS		<u>2,624,194.62</u>	<u>251,249.66</u>	<u>4.98</u>
<u>BONDS EXCHANGED OUT:</u>					
5,942,000.00	See Bond Exchange Schedule for Detail		<u>5,664,329.43</u>	<u>-0-</u>	<u>4.98</u>
	TOTAL - INVESTMENTS DISPOSED OF		<u>\$ 8,288,524.05</u>	<u>\$251,249.66</u>	<u>4.98%</u>

PERMANENT UNIVERSITY FUND

SUMMARY OF BOND EXCHANGES

July, 1972

<u>Exchanges</u>	<u>Par Value Exchanged</u>	<u>Book Value</u>		<u>Principal Takeout or (Payup) Required</u>	<u>Increase in Annual Income*</u>
		<u>Issue Exchanged</u>	<u>Issue Received</u>		
Corporate Bonds for Corporate Bonds (TOTAL - All Exchanges July, 1972)	<u>\$ 5,942,000</u>	<u>\$ 5,664,329.43</u>	<u>\$ 5,185,798.13</u>	<u>\$478,531.30</u>	<u>\$ 20,670.54</u>

*Total income improvement includes income from investment of takeout on exchanges at current market yields.

BOND EXCHANGES
(July, 1972)

<u>PAR</u> <u>VALUE</u>	<u>ISSUE</u> <u>EXCHANGED</u>	<u>DESCRIPTION</u>	<u>BOOK VALUE</u>		<u>BOOK</u> <u>YIELD</u> <u>IN-</u> <u>CREASE</u>	<u>NEW</u> <u>BOOK</u> <u>YIELD</u>
			<u>ISSUE</u> <u>EXCHANGED</u>	<u>ISSUE</u> <u>RECEIVED</u>		
<u>Corporate Bonds for Corporate Bonds</u>						
\$ 160,000	Ohio Bell Tel. Co. Debs., 5-3/8%, due 3/1/2007	Ohio Bell Tel. Co. Debs., 5%, due 2/1/2006	\$ 165,206.94	\$ 157,061.34	-.05% \$ 225.74*	5.12%
70,000	Ditto	Indiana Bell Tel. Co. Debs., 4-3/8%, due 6/1/2003	72,278.04	64,015.94	-.25 \$ 157.10	4.92
50,000	Ditto	Indiana Bell Tel. Co. Debs., 5-1/2%, due 4/1/2007	51,627.17	52,157.67	.06 \$ 20.27	5.23
210,000	American Tel. & Tel. Co. Debs., 5-1/8%, due 4/1/2001	Mountain States Tel. & Tel. Co. Debs., 4-1/2%, due 6/1/2002	210,918.97	194,123.17	-.11 \$ 466.10	4.99
50,000	Ditto	Mountain States Tel. & Tel. Co. Debs., 5-1/2%, due 6/1/2005	50,218.80	51,860.80	.16 \$ 47.67	5.26
20,000	Ditto	Chesapeake & Potomac Tel. Co. of Virginia Debs., 5-1/4%, due 5/1/2005	20,087.52	20,116.92	.11 \$ 21.50	5.21
170,000	Pacific Gas & Electric Co. 1st & Ref. Mtge., 4-1/2%, due 6/1/96	Pacific Gas & Electric Co. 1st & Ref. Mtge., 4-1/2%, due 12/1/96	164,163.80	163,011.20	.05 \$ 110.44	4.79
50,000	Chesapeake & Potomac Tel. Co. of Maryland Debs., 5-7/8%, due 6/1/2004	Wisconsin Tel. Co. Debs., 4-1/2%, due 7/1/92	49,880.25	43,453.25	-.29 \$ 102.04	5.60
30,000	Ditto	Southern Bell Tel. & Tel. Co. Debs., 4-3/8%, due 4/1/2001	29,928.15	24,349.95	-.17 \$ 147.00	5.72

*Total Income Improvement, including income from investment of takeout (payup) on exchange.

BOND EXCHANGES
(July, 1972)

<u>PAR</u> <u>VALUE</u>	<u>ISSUE</u> <u>EXCHANGED</u>	<u>DESCRIPTION</u>	<u>BOOK VALUE</u>		<u>BOOK</u> <u>YIELD</u> <u>IN-</u> <u>CREASE</u>	<u>NEW</u> <u>BOOK</u> <u>YIELD</u>
			<u>ISSUE</u> <u>EXCHANGED</u>	<u>ISSUE</u> <u>RECEIVED</u>		
<u>Corporate Bonds for Corporate Bonds</u>						
\$ 30,000	Chesapeake & Potomac Tel. Co. of Maryland Debs., 5-7/8%, due 6/1/2004	Southern Bell Tel. & Tel. Co. Debs., 5%, due 12/1/97	\$ 29,928.15	\$ 26,923.95	-.12% \$ 73.68*	5.77%
25,000	Ditto	Chesapeake & Potomac Tel. Co. of Virginia Debs., 5-5/8%, due 3/1/2007	24,940.12	23,665.37	.10 \$ 41.01	5.99
26,000	Ditto	Northwestern Bell Tel. Co. Debs., 3-1/4%, due 2/1/96	25,937.73	18,841.03	-.57 \$ 128.35	5.32
20,000	Ditto	Southwestern Bell Tel. Co. Debs., 4-5/8%, due 8/1/95	19,952.10	17,127.30	-.13 \$ 75.56	5.76
39,000	Ditto	Diamond State Tel. Co. Debs., 4-3/4%, due 4/1/94	38,906.60	34,198.91	-.14 \$ 117.88	5.75
219,000	Chesapeake & Potomac Tel. Co. of Baltimore City Debs., 3-1/4%, due 2/1/95	New Jersey Bell Tel. Co. Debs., 3-3/8%, due 12/1/95	181,301.87	182,197.58	.10 \$ 157.12	4.55
209,000	Ditto	Northwestern Bell Tel. Co. Debs., 3-1/4%, due 2/1/96	173,023.24	170,640.64	.08 \$ 203.23	4.53
200,000	Bristol-Myers Co. SF Debs., 5.70%, due 6/1/92	Texaco Inc. Debs., 5-3/4%, due 7/15/97	198,700.51	193,184.51	.26 \$ 584.47	6.02
155,000	American Tel. & Tel. Co. Debs., 5-1/8%, due 4/1/2001	New Jersey Bell Tel. Co. Debs., 4-5/8%, due 6/1/2005	155,678.28	144,439.23	-.05 \$ 169.42	5.05
135,000	Ditto	Southern Bell Tel. & Tel. Co. Debs., 4-3/4%, due 9/1/2000	135,590.76	129,704.76	-.09 \$ 126.63	5.01

BOND EXCHANGES
(July, 1972)

<u>PAR</u> <u>VALUE</u>	<u>ISSUE</u> <u>EXCHANGED</u>	<u>DESCRIPTION</u>	<u>BOOK VALUE</u>		<u>BOOK</u>	<u>NEW</u>
			<u>ISSUE</u> <u>EXCHANGED</u>	<u>ISSUE</u> <u>RECEIVED</u>	<u>IN-</u> <u>CREASE</u>	<u>BOOK</u> <u>YIELD</u>
<u>Corporate Bonds for Corporate Bonds</u>						
\$ 118,000	American Tel. & Tel. Co. Debs., 5-1/8%, due 4/1/2001	Southwestern Bell Tel. Co. Debs., 5-3/8%, due 6/1/2006	\$ 118,516.39	\$ 120,912.97	.12%	5.22%
					\$	93.57*
100,000	Ditto	Pacific Tel. & Tel. Co. Debs., 4-5/8%, due 4/1/99	100,437.60	95,081.60	-.19	4.91
					\$	85.55
50,000	Ditto	New York Tel. Co. Ref. Mtge., 4-5/8%, due 1/1/2002	50,218.80	47,070.80	-.09	5.01
					\$	85.05
45,000	Ditto	New York Tel. Co. Ref. Mtge., 4-1/4%, due 1/1/2000	45,196.92	40,647.42	-.21	4.89
					\$	101.13
25,000	Ditto	Pacific Northwest Bell Tel. Co. Debs., 4-1/2%, due 4/1/2003	25,109.40	23,053.15	-.10	5.00
					\$	59.39
10,000	Ditto	Illinois Bell Tel. Co. 1st Mtge., 4-3/8%, due 7/1/2003	10,043.76	8,975.76	-.07	5.03
					\$	36.97
250,000	Ditto	Southern Bell Tel. & Tel. Co. Debs., 4-3/8%, due 4/1/2001	251,094.01	228,356.51	-.16	4.94
					\$	557.51
115,000	Ditto	Northwestern Bell Tel. Co. Debs., 4-3/8%, due 3/1/2003	115,503.24	104,155.04	-.12	4.98
					\$	118.99
85,000	Ditto	Pacific Tel. & Tel. Co. Debs., 4-5/8%, due 5/1/2000	85,371.96	80,483.61	-.12	4.98
					\$	103.51
50,000	Consumers Power Co. 1st Mtge., 4-5/8%, due 8/1/89	Southwestern Electric Power Co. 1st Mtge., 4-3/8%, due 4/1/93	50,460.45	46,837.95	.31	4.86
					\$	252.37
50,000	Ditto	Central Illinois Public Service Co. 1st Mtge., 4-1/2%, due 5/1/93	50,460.45	47,432.95	.45	4.90
					\$	247.75

BOND EXCHANGES
(July, 1972)

<u>PAR</u> <u>VALUE</u>	<u>ISSUE</u> <u>EXCHANGED</u>	<u>DESCRIPTION</u>	<u>BOOK VALUE</u>		<u>BOOK</u>	<u>NEW</u>
			<u>ISSUE</u> <u>EXCHANGED</u>	<u>ISSUE</u> <u>RECEIVED</u>	<u>YIELD</u> <u>IN-</u> <u>CREASE</u>	<u>BOOK</u> <u>YIELD</u>
<u>Corporate Bonds for Corporate Bonds</u>						
\$ 50,000	Consumers Power Co. 1st Mtge., 4-5/8%, due 8/1/89	Pacific Gas & Electric Co. 1st Mtge., 4-1/2%, due 6/1/90	\$ 50,460.46	\$ 49,149.96	.09%	4.64%
					\$	79.62*
270,000	Appalachian Power Co. 1st Mtge., 4%, due 5/1/88	Great Northern Railway Co. Gen. Mtge., 2-5/8%, due 1/1/2010	247,494.22	164,971.42	.15	4.90
					\$	3,661.56
250,000	Ditto	Southern Pacific Railroad Co. 1st Mtge., 2-3/4%, due 1/1/96	229,161.32	174,293.82	.19	4.94
					\$	2,772.01
150,000	Ohio Power Co. SF Debs., 5-1/8%, due 1/1/96	Ditto	148,803.00	109,287.00	-.52	4.66
					\$	983.95
300,000	Appalachian Power Co. 1st Mtge., 4-3/8%, due 4/1/92	Great Northern Railway Co. Gen. Mtge., 2-5/8%, due 1/1/2010	279,517.67	187,192.67	-.13	4.79
					\$	1,907.82
88,000	Ohio Power Co. SF Debs., 5-1/8%, due 1/1/96	Ditto	87,297.76	56,531.20	-.53	4.65
					\$	839.86
35,000	New York Tel. Co. Ref.Mtge., 4-1/8%, due 7/1/93	Illinois Bell Tel. Co. 1st Mtge., 3-1/4%, due 7/15/95	30,471.18	26,325.08	-.05	5.09
					\$	155.86
25,000	Ditto	Delaware Power & Light Co. 1st Mtge. & Coll. Trust, 4-5/8%, due 10/1/94	21,765.12	22,386.12	.30	5.44
					\$	54.06
25,000	Ditto	Pacific Gas & Electric Co. 1st & Ref. Mtge., 4-1/4%, due 6/1/95	21,765.12	21,496.12	.18	5.32
					\$	44.36
15,000	Ditto	Great Northern Railway Co. Gen. Mtge., 2-5/8%, due 1/1/2010	13,059.08	8,604.98	.09	5.23
					\$	176.02

BOND EXCHANGES
(July, 1972)

<u>PAR</u> <u>VALUE</u>	<u>ISSUE</u> <u>EXCHANGED</u>	<u>DESCRIPTION</u>	<u>ISSUE</u> <u>RECEIVED</u>	<u>BOOK VALUE</u>		<u>BOOK</u>	<u>NEW</u>
				<u>ISSUE</u> <u>EXCHANGED</u>	<u>ISSUE</u> <u>RECEIVED</u>	<u>IN-</u> <u>CREASE</u>	<u>BOOK</u> <u>YIELD</u>
<u>Corporate Bonds for Corporate Bonds</u>							
\$ 285,000	Potomac Electric Power Co. 1st Mtge., 5-1/8%, due 4/1/2001	Great Northern Railway Co. Gen. Mtge., 2-5/8%, due 1/1/2010	\$ 281,767.80	\$ 184,882.05	-.60%	4.60%	\$ 2,457.58*
75,000	Pacific Tel. & Tel. Co. Debs., 5-1/8%, due 2/1/93	Illinois Bell Tel. Co. 1st Mtge., 4-3/8%, due 3/1/94	70,937.75	64,201.25	-.03	5.53	\$ 223.30
50,000	Ditto	Mountain States Tel. & Tel. Co. Debs., 3%, due 8/1/89	47,291.83	37,747.33	-.37	5.19	\$ 200.66
15,000	Ditto	Bell Tel. Co. of Pennsylvania Debs., 3-1/4%, due 3/1/96	14,187.55	10,659.10	-.11	5.45	\$ 116.74
25,000	New York Tel. Co. Ref. Mtge., 4-7/8%, due 1/1/2006	Chesapeake & Potomac Tel. Co. of Virginia Debs., 5-5/8%, due 3/1/2007	24,671.73	26,609.73	.26	5.22	\$ 24.80
15,000	Ditto	Mountain States Tel. & Tel. Co. Debs., 5-1/2%, due 6/1/2005	14,803.04	15,696.29	.24	5.20	\$ 17.22
15,000	Ditto	Northwestern Bell Tel. Co. Debs., 4-3/8%, due 3/1/2003	14,803.04	13,715.39	-.04	4.92	\$ 39.41
30,000	Ditto	Chesapeake & Potomac Tel. Co. of Virginia Debs., 5-5/8%, due 3/1/2007	29,606.08	31,932.28	.26	5.22	\$ 29.76
115,000	Ditto	New England Tel. & Tel. Co. Debs., 6-1/8%, due 10/1/2006	113,489.98	129,665.88	.35	5.31	\$ 83.41
55,000	Southwestern Public Serv. Co. 1st Mtge., 4-1/2%, due 2/1/94	Pacific Gas & Electric Co. 1st & Ref. Mtge., 4-3/8%, due 6/1/94	53,112.30	51,794.50	.06	4.81	\$ 86.69

BOND EXCHANGES
(July, 1972)

<u>PAR VALUE</u>	<u>ISSUE EXCHANGED</u>	<u>DESCRIPTION</u>	<u>BOOK VALUE</u>		<u>BOOK</u>	<u>NEW</u>
			<u>ISSUE EXCHANGED</u>	<u>ISSUE RECEIVED</u>	<u>YIELD IN- CREASE</u>	<u>BOOK YIELD</u>
<u>Corporate Bonds for Corporate Bonds</u>						
\$ 200,000	New York Tel. Co. Ref.Mtge., 4-7/8%, due 1/1/2006	Chesapeake & Potomac Tel. Co. of Virginia Debs., 6-3/4%, due 5/1/2008	\$ 197,373.88	\$ 238,651.88	.55%	5.51%
					\$	367.32*
100,000	Ditto	Ditto	98,686.94	119,035.94	.57	5.53
					\$	212.52
15,000	Commonwealth Edison Co. 1st Mtge., 4-1/4%, due 3/1/87	Florida Power Corp. 1st Mtge., 4-1/4%, due 5/1/92	13,806.29	13,057.49	.31	5.32
					\$	71.83
40,000	Southwestern Bell Tel. Co. Debs., 2-3/4%, due 10/1/85	Ditto	35,003.51	37,205.51	.85	4.80
					\$	243.57
60,000	Ditto	Houston Lighting & Power Co. 1st Mtge., 3%, due 3/1/89	52,505.26	50,386.66	.42	4.37
					\$	331.92
329,000	Pacific Tel. & Tel. Co. Debs., 2-7/8%, due 10/1/86	Bell Tel. Co. of Pennsylvania Debs., 3-3/4%, due 2/1/89	270,217.80	285,871.62	.35	4.92
					\$	466.69
350,000	New Jersey Bell Tel. Co. Debs., 3-3/8%, due 12/1/95	Northwestern Bell Tel. Co. Debs., 3-1/4%, due 2/1/96	302,174.49	296,808.99	-.02	4.28
					\$	98.92
119,000	Southwestern Bell Tel. Co. Debs., 5-7/8%, due 6/1/2003	Wisconsin Tel. Co. Debs., 6-1/4%, due 8/1/2004	122,825.56	127,479.65	.11	5.76
					\$	65.77
75,000	Commonwealth Edison Co. 1st Mtge., 5-1/4%, due 4/1/96	Pacific Gas & Electric Co. 1st & Ref. Mtge., 5-3/8%, due 6/1/98	76,587.69	76,076.94	.17	5.27
					\$	140.31
<u>\$ 5,942,000</u>	<u>Total Exchange of Corporate Bonds for Corporate Bonds</u> (July, 1972)		<u>\$ 5,664,329.43</u>	<u>\$ 5,185,798.13</u>	<u>\$ 20,670.54</u>	<u>(Total Income Improvement)</u>

		<u>BOND PURCHASES</u> (July, 1972)			
<u>PAR</u> <u>VALUE</u>	<u>ISSUE</u>	<u>UNIT</u>	<u>COST</u>	<u>TOTAL</u>	<u>YIELD</u>
<u>Corporate Bonds</u>					
\$ 36,000	Diamond State Tel. Co., Debs., 4-3/4%, due 4/1/94	\$ 71.982	\$	25,913.13	7.35%
3,000	Pacific Tel. & Tel. Co., Debs., 4-5/8%, due 5/1/2000	69.804		2,094.12	7.14
42,000	Great Northern Railway Co., Gen. Mtge., 2-5/8%, due 1/1/2010	37.699		15,833.52	7.75
46,000	Texaco Inc., Notes, 4-1/2%, due 12/15/89	71.09		32,701.40	7.50
<u>15,000</u>	Florida Power Corp., 1st Mtge., 4-1/4%, due 5/1/92	68.738		<u>10,310.70</u>	<u>7.25</u>
<u>\$ 142,000</u>	TOTAL BONDS PURCHASED		\$	<u>86,852.87</u>	<u>7.46%</u>

BOND SALES AND MATURITIES
(July, 1972)

<u>PAR VALUE</u>	<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>CURRENT YIELD</u>
<u>Convertible Bonds</u>				
<u>\$2,176,000.00</u>	Houston Lighting & Power Co., Conv. Debs., 5-1/2%, due 2/1/85	<u>\$2,463,600.00</u>	<u>\$253,839.78</u>	<u>4.86%</u>
<u>Corporate Bonds</u>				
\$ 1,000.00	American Tel. & Tel. Co., Debs., 5-1/8%, due 4/1/2001	\$ 754.30	(\$ 250.07)	7.15%
34,000.00	Peoples Gas Light & Coke Co., 1st & Ref. Mtge., 5-3/8%, due 7/15/91	34,000.00	1,233.04	5.375
<u>11,000.00</u>	Southwestern Bell Tel. Co., Debs., 5-7/8%, due 6/1/2003	<u>9,086.66</u>	<u>(2,266.96)</u>	<u>7.30</u>
<u>46,000.00</u>	Total Corporate Bonds	<u>43,840.96</u>	<u>(1,283.99)</u>	<u>5.81</u>
<u>U. S. Government Obligations</u>				
900.21	GNMA, Pass-Through Pool #92, 8%, due 2/15/2001	900.21	(14.40)	8.00
333.08	GNMA, Pass-Through Pool #114, 8%, due 1/15/2001	333.08	(77.14)	8.00
817.60	GNMA, Pass-Through Pool #152, 8%, due 2/15/2001	817.60	(183.14)	8.00
689.95	GNMA, Pass-Through Pool #236, 8%, due 1/15/2001	689.95	(100.18)	8.00
13,792.96	GNMA, Pass-Through Pool #456, 8%, due 4/15/2001	13,792.96	(1,117.23)	8.00
8,386.05	GNMA, Pass-Through Pool #650, 8%, due 4/15/2001	8,386.05	(279.26)	8.00
17,529.30	GNMA, Pass-Through Pool #682, 7-1/2%, due 5/15/2001	17,529.30	(560.94)	7.50
854.29	GNMA, Pass-Through Pool #832, 6-1/2%, due 1/15/2002	854.29	38.27	6.50
735.90	GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002	735.90	32.14	6.50
10,271.86	GNMA, Pass-Through Pool #905, 6-1/2%, due 7/15/2001	10,271.86	610.15	6.50
449.78	GNMA, Pass-Through Pool #920, 8%, due 9/15/2001	449.78	1.21	8.00
436.33	GNMA, Pass-Through Pool #1029, 6-1/2%, due 12/15/2001	436.33	28.10	6.50
1,689.07	GNMA, Pass-Through Pool #1033, 6-1/2%, due 2/15/2002	1,689.07	71.79	6.50
1,782.68	GNMA, Pass-Through Pool #1105, 6-1/2%, due 1/15/2002	1,782.68	65.96	6.50
991.59	GNMA, Pass-Through Pool #1157, 6-1/2%, due 1/15/2002	991.59	44.42	6.50
2,963.31	GNMA, Pass-Through Pool #1252, 6-1/2%, due 1/15/2002	2,963.31	95.71	6.50
<u>883.01</u>	GNMA, Pass-Through Pool #1306, 6-1/2%, due 1/15/2002	<u>883.01</u>	<u>38.41</u>	<u>6.50</u>
<u>63,506.97</u>	Total U. S. Government Obligations	<u>63,506.97</u>	<u>(1,306.13)</u>	<u>7.37</u>
<u>\$ 109,506.97</u>	TOTAL CORPORATE AND GOVERNMENT BONDS SOLD & MATURED	<u>\$ 107,347.93</u>	<u>(\$ 2,590.12)</u>	<u>6.73%</u>

CASH STATEMENT
July 31, 1972

	Permanent Fund	Available Fund
<u>RECEIPTS:</u>		
From General Land Office	\$1,522,499.62	
From Disposition of Securities:		
U. S. Government Obligations		
GNMA Principal Payments	63,506.97	
FHA Mortgages	53,246.69	
Corporate Bonds	43,840.96	
Convertible Debentures	2,463,600.00	
Bond Exchanges - Net Receipts	478,531.30	
Interest Collected:		
U. S. Government Obligations		
GNMA Interest Payments		\$ 133,601.98
FHA Mortgages		3,390.63
Corporate Bonds		971,340.83
Convertible Debentures		138,812.56
Dividends Collected:		
Common & Preferred Stocks		511,155.67
Amortization of Premium	3,006.93	
Accounts Receivable Collected	790,927.77	
TOTAL RECEIPTS	5,419,160.24	1,758,301.67
Cash on Hand 7/1/72	3,012,820.34	-0-
TOTAL RECEIPTS AND CASH	\$8,431,980.58	\$1,758,301.67

CASH STATEMENT
 July 31, 1972
 (Continued)

	<u>Permanent Fund</u>	<u>Available Fund</u>
<u>DISBURSEMENTS:</u>		
Securities Acquired:		
Corporate Bonds	\$ 86,852.87	
Common Stocks	7,515,025.70	
Amortization of Discount	25,137.68	
To Clear Out Available Fund	<u> </u>	<u>\$1,758,301.67</u>
TOTAL DISBURSEMENTS	<u>7,627,016.25</u>	<u>\$1,758,301.67</u>
Cash and Receivables 7/31/72:		
Cash on Hand	804,453.58	
Accounts Receivable	<u>510.75</u>	
TOTAL CASH AND RECEIVABLES	<u>804,964.33</u>	
TOTAL DISBURSEMENTS, CASH AND RECEIVABLES 7/31/72	<u>\$8,431,980.58</u>	

LAND AND INVESTMENT REPORT

For Month Ended August 31, 1972

I. PERMANENT UNIVERSITY FUND

PERMANENT UNIVERSITY FUND - INVESTMENT MATTERS.---

REPORT ON SECURITIES TRANSACTIONS.---The following securities transactions have been made for the Permanent University Fund in August, 1972. The Associate Deputy Chancellor for Investments, Trusts and Lands recommends approval by the Board of Regents of these transactions.

COMPARISON
SUMMARY OF ASSETS

SECURITY	BOOK VALUE 8/31/71	BOOK YIELD 8/31/71	BOOK VALUE 8/31/72	BOOK YIELD 8/31/72
<u>DEBT SECURITIES:</u>				
U. S. Government Obligations--				
Treasury Bonds	\$107,723,291.67	4.26%	\$105,487,849.82	4.33%
Government Agencies	5,438,875.36	6.81	24,723,364.12	6.91
FHA Mortgages	<u>15,622,444.51</u>	<u>6.83</u>	<u>15,592,280.12</u>	<u>7.01</u>
TOTAL - U. S. Government Obligations	<u>128,784,611.54</u>	<u>4.68</u>	<u>145,803,494.06</u>	<u>5.05</u>
Corporate Bonds	<u>234,360,279.62</u>	<u>4.91</u>	<u>233,763,862.43</u>	<u>4.93</u>
TOTAL - DEBT SECURITIES	<u>363,144,891.16</u>	<u>4.83</u>	<u>379,567,356.49</u>	<u>4.98</u>
<u>EQUITY SECURITIES:</u>				
Convertible Debentures	14,933,307.87	4.97	10,499,040.32	5.24
Convertible Preferred Stocks	15,848,192.03	4.16	11,700,005.30	4.10
Common Stocks	<u>184,688,881.95</u>	<u>4.30</u>	<u>225,199,817.56</u>	<u>4.35</u>
TOTAL - EQUITY SECURITIES	<u>215,470,381.85</u>	<u>4.34</u>	<u>247,398,863.18</u>	<u>4.38</u>
TOTAL - LONG TERM INVESTMENTS	<u>578,615,273.01</u>	<u>4.65</u>	<u>626,966,219.67</u>	<u>4.74</u>
<u>CASH & EQUIVALENT:</u>				
Commercial Paper	15,750,000.00	<u>5.45</u>	3,100,000.00	<u>4.50</u>
Cash	<u>483,744.55</u>		<u>508,840.32</u>	
TOTAL - CASH & EQUIVALENT	<u>16,233,744.55</u>		<u>3,608,840.32</u>	
TOTAL - SECURITIES, CASH & EQUIVALENT	<u>\$594,849,017.56</u>	<u>4.67%</u>	<u>\$630,575,059.99</u>	<u>4.73%</u>

SUMMARY OF TRANSACTIONS
August 31, 1972

	<u>Cost</u>		<u>Current Yield</u>
Purchases:			
Common Stocks (Acquired through Conversion of Convertible Preferred)	\$ <u>4,148,186.73</u>		--
TOTAL LONG TERM PURCHASES	<u>\$ 4,148,186.73</u>		--
	<u>Proceeds</u>	<u>Gain or (Loss)</u>	<u>Yield</u>
Sales:			
U. S. Government Obligations--			
GNMA Principal Payments	\$ 114,249.90	(\$ 3,915.10)	7.43%
FHA Mortgages	126,042.35	--	6.86
Convertible Preferred Stocks (Converted into Common)	<u>4,148,186.73</u>	<u> --</u>	<u> --</u>
TOTAL LONG TERM SALES	<u>\$ 4,388,478.98</u>	<u>(\$ 3,915.10)</u>	<u>7.13%</u>

PERMANENT UNIVERSITY FUND BOOK VALUE

July 31, 1972 Balance		\$627,958,820.58
Additions (August, 1972)		
Realized Net Gain or (Loss) on Security Transactions	(\$ 3,915.10)	
From General Land Office	<u>2,620,154.51</u>	<u>2,616,239.41</u>
August 31, 1972 Balance		<u>\$630,575,059.99</u>

INVESTMENTS ACQUIRED

Par Value or No. Shares	Description	Price	Total Net Cost	Current Yield
	<u>COMMON STOCKS:</u>			
100,005 Shs.	International Telephone & Telegraph Corp. (Conversion of Cumulative Preferred Stock \$2.25 Convertible Series N into Common Stock, 1-for-1.25 basis)	--	\$ 4,148,186.73	--
	TOTAL - LONG TERM INVESTMENTS		<u>4,148,186.73</u>	--
	<u>COMMERCIAL PAPER:</u>			
\$3,100,000	Ford Motor Credit Company	\$100.00	<u>3,100,000.00</u>	<u>4.534%</u>
	TOTAL - INVESTMENTS ACQUIRED		<u>\$ 7,248,186.73</u>	

INVESTMENTS DISPOSED OF

Par Value or No. Shares	Description	Price	Total Net Proceeds	Gain or (Loss)	Yield
	<u>U. S. GOVERNMENT OBLIGATIONS:</u>				
\$114,249.90	GNMA, Various Pools	\$100.00	\$ 114,249.90	(\$ 3,915.10)	7.43%
	FHA Mortgages Principal Payments	100.00	<u>126,042.35</u>	<u>-0-</u>	<u>6.86</u>
	TOTAL - U. S. Government Obligations		<u>240,292.25</u>	<u>(3,915.10)</u>	<u>7.13</u>
	<u>CONVERTIBLE PREFERRED STOCKS:</u>				
80,004 Shs.	International Telephone & Telegraph Corp. Cumulative Preferred Stock \$2.25 Convertible Series N (Converted into Common Stock, 1-for-1.25 basis)		<u>4,148,186.73</u>	<u>--</u>	<u>--</u>
	TOTAL - LONG TERM INVESTMENTS		<u>4,388,478.98</u>	<u>(3,915.10)</u>	<u>7.13</u>
	TOTAL - INVESTMENTS DISPOSED OF		<u>\$ 4,388,478.98</u>	<u>(\$ 3,915.10)</u>	<u>7.13%</u>

PERMANENT UNIVERSITY FUND
(August, 1972)

BOND SALES AND MATURITIES

<u>PAR VALUE</u>	<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
<u>U. S. Government Obligations</u>				
\$ 4,509.42	GNMA, Pass-Through Pool #92, 8%, due 2/15/2001	\$ 4,509.42	(\$ 72.15)	8.00%
335.45	GNMA, Pass-Through Pool #114, 8%, due 1/15/2001	335.45	(77.69)	8.00
823.40	GNMA, Pass-Through Pool #152, 8%, due 2/15/2001	823.40	(183.37)	8.00
13,902.84	GNMA, Pass-Through Pool #236, 8%, due 1/15/2001	13,902.84	(2,018.69)	8.00
19,356.68	GNMA, Pass-Through Pool #456, 8%, due 4/15/2001	19,356.68	(1,567.89)	8.00
7,312.78	GNMA, Pass-Through Pool #650, 8%, due 4/15/2001	7,312.78	(243.52)	8.00
35,950.60	GNMA, Pass-Through Pool #682, 7-1/2%, due 5/15/2001	35,950.60	(1,150.42)	7.50
11,157.90	GNMA, Pass-Through Pool #832, 6-1/2%, due 1/15/2002	11,157.90	499.87	6.50
3,178.80	GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002	3,178.80	135.10	6.50
4,886.37	GNMA, Pass-Through Pool #905, 6-1/2%, due 7/15/2001	4,886.37	290.25	6.50
452.97	GNMA, Pass-Through Pool #920, 8%, due 9/15/2001	452.97	1.22	8.00
438.86	GNMA, Pass-Through Pool #1029, 6-1/2%, due 12/15/2001	438.86	28.26	6.50
1,698.92	GNMA, Pass-Through Pool #1033, 6-1/2%, due 2/15/2002	1,698.92	71.86	6.50
899.14	GNMA, Pass-Through Pool #1105, 6-1/2%, due 1/15/2002	899.14	33.18	6.50
997.38	GNMA, Pass-Through Pool #1157, 6-1/2%, due 1/15/2002	997.38	44.68	6.50
6,155.20	GNMA, Pass-Through Pool #1252, 6-1/2%, due 1/15/2002	6,155.20	198.81	6.50
2,193.19	GNMA, Pass-Through Pool #1306, 6-1/2%, due 1/15/2002	2,193.19	95.40	6.50
<u>\$ 114,249.90</u>	TOTAL BONDS SOLD AND MATURED	<u>\$ 114,249.90</u>	<u>(\$ 3,915.10)</u>	<u>7.43%</u>

NOTE: There were no Bond Exchanges or Bond Purchases during the month of August, 1972 for the Permanent University Fund.

CASH STATEMENT
August 31, 1972

	Permanent Fund	Available Fund
<u>RECEIPTS:</u>		
From General Land Office	\$2,620,154.51	
From Disposition of Securities:		
U. S. Government Obligations		
GNMA Principal Payments	114,249.90	
FHA Mortgages	126,042.35	
Convertible Preferred Stocks	4,148,186.73	
Interest Collected:		
U. S. Bonds		\$1,912,364.43
U. S. Government Obligations		
GNMA Interest Payments		125,999.58
FHA Mortgages		173,665.44
Corporate Bonds		791,453.64
Dividends Collected:		
Common & Preferred Stocks		476,258.42
Amortization of Premium	53,215.12	
Accounts Receivable Collected	510.75	
TOTAL RECEIPTS	7,062,359.36	3,479,741.51
Cash on Hand 8/1/72	804,453.58	--0--
TOTAL RECEIPTS AND CASH	\$7,866,812.94	\$3,479,741.51

CASH STATEMENT
 August 31, 1972
 (Continued)

	<u>Permanent Fund</u>	<u>Available Fund</u>
<u>DISBURSEMENTS:</u>		
Securities Acquired:		
Common Stocks	\$4,148,186.73	
Commercial Paper	3,100,000.00	
Amortization of Discount	109,785.89	
To Clear Out Available Fund	<u> </u>	<u>\$3,479,741.51</u>
TOTAL DISBURSEMENTS	<u>7,357,972.62</u>	<u>\$3,479,741.51</u>
Cash on Hand 8/31/72	<u>508,840.32</u>	
TOTAL DISBURSEMENTS AND CASH 8/31/72	<u>\$7,866,812.94</u>	

II. TRUST AND SPECIAL FUNDS

TRUST AND SPECIAL FUNDS - INVESTMENT MATTERS.--

REPORT ON SECURITIES TRANSACTIONS.--The following securities transactions have been made for the Trust and Special Funds in July, 1972. The Associate Deputy Chancellor for Investments, Trusts and Lands recommends approval by the Board of Regents of these transactions.

INVESTMENTS ACQUIRED

<u>Par Value</u>	<u>Description and Fund</u>	<u>Total Net Cost</u>	<u>Yield</u>
	<u>CORPORATE BONDS:</u>		
	See Bond Purchase Schedule for Detail		
\$1,361,000	Common Trust Fund	\$ 990,660.99	7.35%
7,000	Anderson-Mayfair Mortgage Retirement Fund - AH	6,378.89	6.90
	TOTAL - Corporate Bonds	997,039.88	7.35%
	<u>COMMON STOCKS:</u>		
	See Stock Purchase Schedule for Detail		
	Common Trust Fund	530,007.80	4.10%
	TOTAL - LONG TERM INVESTMENTS	\$1,527,047.68	
	<u>BONDS EXCHANGED IN:</u>		
	See Bond Exchange Schedule for Detail		
50,000	Common Trust Fund	\$ 41,506.22	5.81%
	<u>SHORT TERM PAPER:</u>		
900,000	FMC 4-5/8% Note, due 8/31/72 (Common Trust Fund)	900,000.00	4.659118
1,100,000	FMC 4-5/8% Note, due 8/31/72 (Common Trust Fund)	1,100,000.00	4.656105
100,000	FMC 4-5/8% Note, due 8/31/72 (Archer M. Huntington Museum Fund)	100,000.00	4.655503
130,000	FMC 4-5/8% Note, due 8/31/72 (\$120,000 - Common Trust Fund - Undistributed Receipts 10,000 - Josephine Clardy Fox Estate Fund - UTEP)	130,000.00	4.655503
103,000	FMC 4-1/2% Note, due 8/31/72 (\$ 48,500 - Common Trust Fund - Undistributed Receipts 20,000 - System Development Office - Development Projects and Publications 34,500 - Miss Eloise Alexander Memorial Fund - SAMS)	103,000.00	4.39101
1,150,000	GMAC 4-5/8% Note, due 8/31/72 (Common Trust Fund)	1,150,000.00	4.656

INVESTMENTS DISPOSED OF

<u>Par Value</u>	<u>Description and Fund</u>	<u>Total Net Proceeds</u>	<u>Gain or (Loss)</u>	<u>Yield</u>
<u>U. S. TREASURY SECURITIES:</u>				
See Bond Sales and Redemptions Schedule for Detail				
\$35,000.00	Miss Eloise Alexander Memorial Fund - SAMS	\$ 34,975.00	\$ 856.25	5.78%
91,000.00	Hospital Refunding Bonds, Dated 1-1-51 - U.T. Austin	83,808.75	(454.79)	6.08
	TOTAL - U. S. Treasury Securities	118,783.75	401.46	5.99%
<u>U. S. GOVERNMENT OBLIGATIONS:</u>				
See Bond Sales and Maturities Schedule for Detail				
6,493.33	Common Trust Fund	6,493.33	(256.72)	7.86%
931.88	The William Buchanan Chair in Internal Medicine - DMS	931.88	(12.85)	7.92
60.03	Reserve for Possible Fire Losses - Temporary Student Housing Units	60.03	0.76	6.50
140.21	Texas Union Building Fund	140.21	12.87	6.50
547.49	Student Property Deposit Scholarship Fund	547.49	(1.01)	7.59
359.08	Student Property Deposit Scholarship Fund - Temporary	359.08	11.21	6.50
513.04	U.T. System - General Tuition Revenue Bonds, Series 1971 - Reserve Fund	513.04	25.30	6.50
696.92	U.T. Austin - Dormitory Revenue Bond Fund, Series 1954 - Reserve Fund	696.92	(16.24)	8.00
206.91	U.T. Austin - Dormitory Revenue Bonds Fund, Series 1956 - Reserve Fund	206.91	(8.21)	8.00
772.03	U.T. Austin - Student Housing Revenue Bonds of 1963 - Reserve Fund	772.03	(4.87)	8.00
1,286.02	U.T. Austin - Housing System Revenue Bonds, Series 1967 - Reserve Fund	1,286.02	(9.47)	7.87
995.30	U.T. Austin - Building Revenue Bonds, Series 1969 - Utility Plant - Student Fee Revenue Bonds - Reserve Fund	995.30	(53.02)	8.00
485.37	U.T. Austin - Combined Fee Revenue Bonds, Series 1970 & 1971 - Reserve Fund	485.37	19.30	6.77
122.59	U.T. Austin - Student Union Revenue Bonds, Series 1958 - Reserve Fund	122.59	-0-	8.00
1,227.36	Galveston Medical Branch - Dormitory Revenue Bonds, Series 1955 - Reserve Fund	1,227.36	0.10	7.79
26.09	U.T. El Paso - Student Housing Revenue Bonds of 1961 - Reserve Fund	26.09	0.78	6.50
802.26	U.T. El Paso - Building Revenue Bonds, Series 1969 - Reserve Fund	802.26	22.17	7.42

INVESTMENTS DISPOSED OF
(Continued)

<u>Par Value</u>	<u>Description and Fund</u>	<u>Total Net Proceeds</u>	<u>Gain or (Loss)</u>	<u>Yield</u>
<u>U. S. GOVERNMENT OBLIGATIONS: (Continued)</u>				
\$ 418.02	U.T. El Paso - Student Union Building Revenue Bonds, Series A and B, 1967 - Reserve Fund	\$ 418.02	(\$ 1.78)	8.00%
68.94	U.T. El Paso - Combined Fee Revenue Bonds, Series 1970 & 1971 - Reserve Fund	68.94	2.71	7.25
346.09	U.T. Arlington - Housing System Revenue Bonds - Series 1963 - Reserve Fund	346.09	1.37	7.88
392.28	U.T. Arlington - Student Center Fee Bonds, Series 1960 - Reserve Fund	392.28	-0-	8.00
404.54	U.T. Arlington - Gymnasium Fee Bonds - Series 1961 - Reserve Fund	404.54	-0-	8.00
242.53	U.T. Arlington - Student Fee Revenue Bonds - Series 1964, Series 1966, and Series 1968 - Reserve Fund	242.53	(0.89)	7.68
67.37	U.T. Arlington - Combined Fee Revenue Bonds, Series 1971 & 1971A - Reserve Fund	<u>67.37</u>	<u>3.32</u>	<u>6.50</u>
	TOTAL - U. S. Government Obligations	<u>17,605.68</u>	<u>(265.17)</u>	<u>7.73%</u>
<u>CORPORATE BONDS:</u>				
See Bond Sales and Redemption Schedule for Detail				
\$3,555,000	Common Trust Fund	\$2,906,826.84	(\$73,853.72)	7.38%
10,000	Josephine Clardy Fox Estate Fund - UTEP	10,000.00	-0-	6.00
100,000	Archer M. Huntington Museum Fund	100,000.00	-0-	6.00
2,083.33	Jack G. Taylor Endowment Fund	<u>2,083.33</u>	<u>-0-</u>	<u>8.00</u>
	TOTAL - Corporate Bonds	<u>3,018,910.17</u>	<u>(73,853.72)</u>	<u>7.33%</u>
<u>CONVERTIBLE BONDS:</u>				
See Bond Sales and Redemption Schedule for Detail				
128,000	Common Trust Fund	<u>145,920.00</u>	<u>1,725.00</u>	<u>4.82%</u>
<u>COMMON STOCKS:</u>				
See Stock Sales Schedule for Detail				
	Common Trust Fund	79,012.50	(2,187.50)	1.24%
	Walter Prescott Webb Symposium Fund	<u>17,371.60</u>	<u>(4,628.40)</u>	<u>0.27</u>
	TOTAL - Common Stocks	<u>96,384.10</u>	<u>(6,815.90)</u>	<u>1.07%</u>
	TOTAL - LONG TERM INVESTMENTS SOLD	<u>\$3,397,603.70</u>	<u>(\$78,808.33)</u>	

INVESTMENTS DISPOSED OF
(Continued)

<u>Par Value</u>	<u>Description and Fund</u>	<u>Total Net Proceeds</u>	<u>Gain or (Loss)</u>	<u>Yield</u>
<u>BONDS EXCHANGED OUT:</u>				
See Bond Exchange Schedule for Detail				
\$ 50,000	Common Trust Fund	\$ 45,191.22	--	5.66%
<u>SHORT TERM PAPER:</u>				
900,000	FMC 4-5/8% Note, due 8/31/72 (Common Trust Fund - Prepaid on 7/20/72)	900,000.00	--	4.659118
60,000	SRAC 5-3/8% Note, due 7/14/72 (Lila Belle Etter Fund)	60,000.00	--	5.60078

SUMMARY OF TRANSACTIONS
THE UNIVERSITY OF TEXAS SYSTEM COMMON TRUST FUND
July, 1972

	<u>Cost</u>		<u>Yield</u>
Purchases:			
Corporate Bonds	\$ 990,660.99		7.35%
Common Stocks	<u>530,007.80</u>		<u>4.10</u>
TOTAL LONG TERM PURCHASES	<u>\$1,520,668.79</u>		<u>6.22%</u>
	<u>Proceeds</u>	<u>Gain or (Loss)</u>	<u>Yield</u>
Sales and Maturities:			
U. S. Government Obligations	\$ 6,493.33	(\$ 256.72)	7.86%
Corporate Bonds	2,906,826.84	(73,853.72)	7.38
Convertible Bonds	145,920.00	1,725.00	4.82
Common Stocks	<u>79,012.50</u>	(2,187.50)	<u>1.24</u>
TOTAL LONG TERM SALES	<u>\$3,138,252.67</u>	<u>(\$74,572.94)</u>	<u>7.11%</u>

BOND EXCHANGES

Par Exchanged	Increase in Annual Income
\$50,000	\$120.85

THE UNIVERSITY OF TEXAS SYSTEM COMMON TRUST FUND

(July, 1972)

BOND EXCHANGES

<u>PAR VALUE</u>	<u>ISSUE EXCHANGED</u>	<u>DESCRIPTION</u>	<u>ISSUE RECEIVED</u>	<u>BOOK VALUE</u>		<u>BOOK YIELD</u>	<u>NEW BOOK YIELD</u>
				<u>ISSUE EXCHANGED</u>	<u>ISSUE RECEIVED</u>	<u>IN- CREASE</u>	
\$ 50,000		Central Illinois Pub. Serv. Co. Pacific Gas & Electric Co. 1st Mtge., 4-3/4%, due 1/1/89 1st & Ref. Mtge., 4-1/2%, due 12/1/96		\$ 45,191.22	\$ 41,506.22	.15%	5.81%
						\$ 120.85*	
						(Total Income Improvement)	

*Total Income Improvement, including income from investment of takeout (payup) on exchange.

STOCK SALES

<u>NO. OF SHARES SOLD</u>	<u>ISSUE</u>	<u>NET SALES PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
700 Shs.	Sears, Roebuck & Company Common Stock	\$ 79,012.50	(\$ 2,187.50)	1.24%

STOCK PURCHASES

<u>NO. OF SHS. PURCHASED</u>	<u>ISSUE</u>	<u>COST</u>		<u>YIELD</u>
		<u>UNIT</u>	<u>TOTAL</u>	
6,000 Shs.	Lone Star Gas Company Common Stock	\$ 28.854	\$ 173,125.00	4.71%
10,000 "	Safeway Stores, Inc. Common Stock	35.688	356,882.80	3.80
			\$ 530,007.80	4.10%

THE UNIVERSITY OF TEXAS SYSTEM COMMON TRUST FUND
(July, 1972)

BOND PURCHASES

	<u>PAR VALUE</u>	<u>ISSUE</u>	<u>COST</u>		<u>YIELD</u>
			<u>UNIT</u>	<u>TOTAL</u>	
\$	44,000	Alabama Power Co., 1st Mtge., 3-7/8%, due 1/1/88	\$ 67.125	\$ 29,535.00	7.50%
	15,000	Baltimore Gas & Electric Co., SF Debs., 4-7/8%, due 6/15/86	77.85	11,677.50	7.45
	50,000	Baltimore Gas & Electric Co., SF Debs., 4-5/8%, due 8/1/90	72.606	36,303.00	7.40
	10,000	Central Illinois Light Co., 1st Mtge., 4-7/8%, due 3/1/90	74.529	7,452.90	7.50
	50,000	Columbus & Southern Ohio Electric Co., 1st Mtge., 4-1/8%, due 1/1/88	69.743	34,871.50	7.45
	50,000	Commonwealth Edison Co., 1st Mtge., 4-1/4%, due 3/1/87	72.45	36,225.00	7.35
	40,000	Florida Power Corp., 1st Mtge., 4-1/8%, due 7/1/88	69.957	27,982.80	7.35
	50,000	Florida Power & Light Co., 1st Mtge., 4-5/8%, due 5/1/87	74.52	37,260.00	7.50
	64,000	Georgia Power Co., 1st Mtge., 5-1/4%, due 6/1/87	80.304	51,394.56	7.46
	50,000	Public Service Co. of Colorado, 1st Mtge., 4-3/8%, due 5/1/87	72.67	36,335.00	7.45
	42,000	Union Electric Co., 1st Mtge., 4-3/8%, due 3/1/88	71.674	30,103.18	7.47
	56,000	Union Electric Co., 1st Mtge., 4-3/4%, due 9/1/90	72.91	40,829.88	7.51
	100,000	Consolidated Natural Gas Co., Debs., 4-3/8%, due 8/1/83	78.691	78,691.00	7.20
	150,000	Niagara Mohawk Power Corp., Gen. Mtge., 2-3/4%, due 1/1/80	74.59	111,885.00	7.20
	130,000	Mississippi Power & Light Co., 1st Mtge., 3-5/8%, due 3/1/83	71.875	93,437.50	7.50
	10,000	Northern Illinois Gas Co., 1st Mtge., 5%, due 6/1/84	80.546	8,054.60	7.50
	10,000	Ohio Edison Co., 1st Mtge., 4-1/2%, due 4/1/89	71.665	7,166.50	7.50
	10,000	Florida Power Corp., 1st Mtge., 4-5/8%, due 4/1/95	69.25	6,925.00	7.45
	15,000	Niagara Mohawk Power Corp., Gen. Mtge., 4-1/2%, due 11/1/91	68.45	10,267.50	7.65
	27,000	Northern Illinois Gas Co., 1st Mtge., 5%, due 6/1/84	80.87	21,834.90	7.45
	35,000	Pacific Gas & Elec. Co., 1st & Ref. Mtge., 5-1/2%, due 6/1/99	77.00	26,950.00	7.50
	102,000	Pacific Gas & Elec. Co., 1st & Ref. Mtge., 2-7/8%, due 12/1/80	74.173	75,656.46	7.00
	8,000	Southern Electric Generating Co., 1st Mtge., 5-1/4%, Series 1959, due 6/1/92	74.852	5,988.16	7.75
	55,000	Illinois Bell Tel. Co., 1st Mtge., 3-1/8%, due 4/1/84	68.130	37,471.50	7.20
	17,000	Houston Lighting & Power Co., 1st Mtge., 3-1/4%, due 3/1/86	65.41	11,119.70	7.30
	75,000	Pacific Tel. & Tel. Co., Debs., 2-3/4%, due 12/1/85	62.523	46,892.25	7.15
	15,000	Texas Electric Service Co., SF Debs., 5-1/4%, due 2/1/85	82.629	12,394.35	7.40
	25,000	Florida Power & Light Co., 1st Mtge., 3-1/8%, due 11/1/84	65.58	16,395.00	7.45
	25,000	Northern States Power Co. (Minn.), 1st Mtge., 4-1/4%, due 9/1/86	72.375	18,093.75	7.45
	31,000	Georgia Power Co., 1st Mtge., 4-1/8%, due 3/1/88	69.25	21,467.50	7.50
	<u>\$ 1,361,000</u>			<u>\$ 990,660.99</u>	<u>7.35%</u>

THE UNIVERSITY OF TEXAS SYSTEM COMMON TRUST FUND

(July, 1972)

BOND SALES AND MATURITIES

<u>PAR VALUE</u>	<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
<u>Corporate Bonds</u>				
\$ 200,000	Pacific Gas & Elec. Co., 1st & Ref. Mtge., 7-1/2%, due 12/1/03	\$ 200,500.00	\$ 500.00	7.48%
500,000	Southwestern Elec. Power Co., 1st Mtge., 7-1/2%, due 10/1/2001	498,750.00	(3,002.00)	7.52
117,000	New England Tel. & Tel. Co., Debs., 4-5/8%, due 4/1/99	81,983.07	1,589.47	7.15
438,000	New York Tel. Co., Ref. Mtge., 4-7/8%, due 1/1/2006	311,886.66	(13,964.95)	7.15
20,000	Chesapeake & Potomac Tel. Co. of Virginia, Debs., 5-1/4%, due 5/1/2005	15,188.00	456.32	7.16
70,000	Indiana Bell Tel. Co., Debs., 4-3/8%, due 6/1/2003	46,152.40	(2,344.03)	7.11
50,000	Indiana Bell Tel. Co., Debs., 5-1/2%, due 4/1/2007	39,398.00	1,462.51	7.16
210,000	Mountain States Tel. & Tel. Co., Debs., 4-1/2%, due 6/1/2002	142,369.50	1,841.91	7.11
50,000	Mountain States Tel. & Tel. Co., Debs., 5-1/2%, due 6/1/2005	39,538.50	(1,451.83)	7.16
160,000	Ohio Bell Tel. Co., Debs., 5%, due 2/1/2006	116,230.40	2,659.90	7.16
200,000	Consolidated Natural Gas Co., Debs., 8-3/8%, due 5/1/96	212,000.00	750.10	7.82
155,000	New Jersey Bell Tel. Co., Debs., 4-5/8%, due 6/1/2005	105,483.70	(23,824.62)	7.16
45,000	New York Tel. Co., Ref. Mtge., 4-1/4%, due 1/1/2000	29,337.75	(3,166.67)	7.16
50,000	New York Tel. Co., Ref. Mtge., 4-5/8%, due 1/1/2002	34,504.50	(3,731.29)	7.16
115,000	Northwestern Bell Tel. Co., Debs., 4-3/8%, due 3/1/2003	75,396.30	1,524.62	7.16
25,000	Pacific Northwest Bell Tel. Co., Debs., 4-1/2%, due 4/1/2003	16,770.00	(18.75)	7.16
100,000	Pacific Tel. & Tel. Co., Debs., 4-5/8%, due 4/1/99	69,949.00	2,148.27	7.16
88,000	Pacific Tel. & Tel. Co., Debs., 4-5/8%, due 5/1/2000	61,317.52	(3,942.93)	7.15
100,000	Public Service Elec. & Gas Co., 1st & Ref. Mtge., 8-3/8%, due 5/15/2001	106,000.00	5,409.27	7.85
100,000	Scott Paper Co., SF Debs., 8-7/8%, due 6/1/2000	110,150.00	(49.00)	7.88
135,000	Southern Bell Tel. & Tel. Co., Debs., 4-3/4%, due 9/1/2000	95,775.75	106.53	7.16
250,000	Southern Bell Tel. & Tel. Co., Debs., 4-3/8%, due 4/1/2001	165,837.50	(29,827.59)	7.15
118,000	Southwestern Bell Tel. Co., Debs., 5-3/8%, due 6/1/2006	91,256.48	(12,206.59)	7.16
100,000	Weyerhaeuser Co., SF Debs., 8-5/8%, due 10/1/2000	108,625.00	5,732.65	7.85
10,000	Wisconsin Elec. Power Co., 1st Mtge., 6-7/8%, due 5/15/98	9,300.00	8.33	7.49
119,000	Wisconsin Tel. Co., Debs., 6-1/4%, due 8/1/2004	102,648.21	(559.23)	7.37
30,000	Appalachian Power Co., 1st Mtge., 4%, due 5/1/88	20,478.60	45.88	7.45
<u>3,555,000</u>	Total Corporate Bonds	<u>2,906,826.84</u>	<u>(73,853.72)</u>	<u>7.38</u>

THE UNIVERSITY OF TEXAS SYSTEM COMMON TRUST FUND

(July, 1972)

BOND SALES AND MATURITIES

<u>PAR VALUE</u>	<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
<u>U. S. Government Obligations</u>				
\$ 4,970.63	GNMA, Pass-Through Pool #95, 8%, due 12/15/2000	\$ 4,970.63	(\$ 271.89)	8.00%
166.45	GNMA, Pass-Through Pool #163, 8%, due 2/15/2001	166.45	(9.15)	8.00
63.47	GNMA, Pass-Through Pool #548, 8%, due 4/15/2001	63.47	(3.49)	8.00
253.88	GNMA, Pass-Through Pool #650, 8%, due 4/15/2001	253.88	(13.96)	8.00
122.19	GNMA, Pass-Through Pool #708, 6-1/2%, due 11/15/2001	122.19	5.19	6.50
450.51	GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002	450.51	44.65	6.50
<u>466.20</u>	GNMA, Pass-Through Pool #920, 8%, due 9/15/2001	<u>466.20</u>	(8.07)	8.00
<u>6,493.33</u>	Total U. S. Government Obligations	<u>6,493.33</u>	(256.72)	7.86
<u>\$3,561,493.33</u>	TOTAL CORPORATE AND GOVERNMENT BONDS	<u>\$2,913,320.17</u>	<u>(\$ 74,110.44)</u>	<u>7.38%</u>
<u>Convertible Bonds</u>				
<u>\$ 128,000</u>	Houston Lighting & Power Co., Conv. Debs., 5-1/2%, due 2/1/85	<u>\$ 145,920.00</u>	<u>\$ 1,725.00</u>	<u>4.82%</u>

BOND SALES AND REDEMPTIONS
(July, 1972)

<u>PAR VALUE</u>	<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
<u>JOSEPHINE CLARDY FOX ESTATE FUND - U. T. EL PASO</u>				
<u>\$ 10,000</u>	First Savings & Loan Association of El Paso, 6%, due 7/1/72	<u>\$ 10,000.00</u>	--	<u>6.00%</u>
<u>MISS ELOISE ALEXANDER MEMORIAL FUND - SAN ANTONIO MEDICAL SCHOOL</u>				
\$ 15,000	U. S. Treasury Notes, 5-3/4%, due 11/15/74	\$ 15,000.00	\$ 375.00	5.75%
<u>20,000</u>	U. S. Treasury Notes, 5-3/4%, due 2/15/75	<u>19,975.00</u>	<u>481.25</u>	<u>5.80</u>
<u>\$ 35,000</u>		<u>\$ 34,975.00</u>	<u>\$ 856.25</u>	<u>5.78%</u>
<u>HOSPITAL REFUNDING BONDS, DATED 1-1-51 - U. T. AUSTIN</u>				
\$ 36,000	U. S. Treasury Notes, 7-1/2%, due 8/15/76	\$ 37,890.00	\$ 1,935.99	6.01%
10,000	U. S. Treasury Notes, Series A, 8%, due 2/15/77	10,762.50	558.00	6.08
<u>45,000</u>	U. S. Treasury Bonds, 4-1/4%, due 8/15/92-87	<u>35,156.25</u>	(<u>2,948.78</u>)	<u>6.16</u>
<u>\$ 91,000</u>		<u>\$ 83,808.75</u>	(<u>\$ 454.79</u>)	<u>6.08%</u>
<u>ARCHER M. HUNTINGTON MUSEUM FUND</u>				
<u>\$100,000</u>	Union Carbide Corp., 6% Note, due annually	<u>\$100,000.00</u>	--	<u>6.00%</u>
<u>JACK G. TAYLOR ENDOWMENT FUND</u>				
<u>\$ 2,083.33</u>	Universal Tel. Co., Sub. Conv. Note, 8%, due 4/1/75	<u>\$ 2,083.33</u>	--	<u>8.00%</u>

WALTER PRESCOTT WEBB SYMPOSIUM FUND

(July, 1972)

STOCK SALES

<u>NO. OF SHARES SOLD</u>	<u>ISSUE</u>	<u>NET SALES PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
800 Shs.	American First Corporation Common Stock	<u>\$ 17,371.60</u>	<u>(\$ 4,628.40)</u>	<u>0.27%</u>

ANDERSON-MAYFAIR MORTGAGE RETIREMENT FUND - ANDERSON HOSPITAL

(July, 1972)

BOND PURCHASES

<u>PAR VALUE</u>	<u>ISSUE</u>	<u>COST</u>		<u>YIELD</u>
		<u>UNIT</u>	<u>TOTAL</u>	
<u>\$ 7,000</u>	Public Service Electric & Gas Co., Debs., 4-5/8%, due 3/1/77	\$ 91.127	<u>\$ 6,378.89</u>	<u>6.90%</u>

THE WILLIAM BUCHANAN CHAIR IN INTERNAL MEDICINE - DALLAS MEDICAL SCHOOL

(July, 1972)

BOND SALES AND MATURITIES

<u>PAR VALUE</u>	<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
\$ 880.84	GNMA, Pass-Through Pool #650, 8%, due 4/15/2001	\$ 880.84	(\$ 16.78)	8.00%
<u>51.04</u>	GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002	<u>51.04</u>	<u>3.93</u>	<u>6.50</u>
<u>\$ 931.88</u>		<u>\$ 931.88</u>	<u>(\$ 12.85)</u>	<u>7.92%</u>

GNMA PASS-THROUGH MATURITIES
(July, 1972)

<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
<u>RESERVE FOR POSSIBLE FIRE LOSSES - TEMPORARY STUDENT HOUSING UNITS:</u>			
GNMA, Pool #852, 6-1/2%, due 1/15/2002	\$ 60.03	\$ 0.76	6.50%
<u>TEXAS UNION BUILDING FUND:</u>			
GNMA, Pool #852, 6-1/2%, due 1/15/2002	\$ 140.21	\$ 12.87	6.50%
<u>STUDENT PROPERTY DEPOSIT SCHOLARSHIP FUND:</u>			
GNMA, Pool #121, 8%, due 11/15/2000	\$ 39.32	(\$ 1.12)	8.00%
GNMA, Pool #184, 8%, due 4/1/2001	357.96	-0-	8.00
GNMA, Pool #852, 6-1/2%, due 1/15/2002	150.21	0.11	6.50
	<u>\$ 547.49</u>	<u>(\$ 1.01)</u>	<u>7.59%</u>
<u>STUDENT PROPERTY DEPOSIT SCHOLARSHIP FUND - TEMPORARY:</u>			
GNMA, Pool #708, 6-1/2%, due 11/15/2001	\$ 190.88	\$ 4.18	6.50%
GNMA, Pool #852, 6-1/2%, due 1/15/2002	168.20	7.03	6.50
	<u>\$ 359.08</u>	<u>\$ 11.21</u>	<u>6.50%</u>
<u>U. T. SYSTEM - GENERAL TUITION REVENUE BONDS, SERIES 1971 - RESERVE FUND:</u>			
GNMA, Pool #708, 6-1/2%, due 11/15/2001	\$ 76.26	\$ 3.81	6.50%
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	436.78	21.49	6.50
	<u>\$ 513.04</u>	<u>\$ 25.30</u>	<u>6.50%</u>
<u>U. T. AUSTIN - DORMITORY REVENUE BOND FUND, SERIES 1954 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 416.80	\$ -0-	8.00%
GNMA, Pool #548, 8%, due 4/15/2001	280.12	(16.24)	8.00
	<u>\$ 696.92</u>	<u>(\$ 16.24)</u>	<u>8.00%</u>
<u>U. T. AUSTIN - DORMITORY REVENUE BONDS FUND, SERIES 1956 - RESERVE FUND:</u>			
GNMA, Pool #548, 8%, due 4/15/2001	\$ 57.63	(\$ 3.34)	8.00%
GNMA, Pool #650, 8%, due 4/15/2001	149.28	(4.87)	8.00
	<u>\$ 206.91</u>	<u>(\$ 8.21)</u>	<u>8.00%</u>
<u>U. T. AUSTIN - STUDENT HOUSING REVENUE BONDS OF 1963 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 622.75	\$ -0-	8.00%
GNMA, Pool #650, 8%, due 4/15/2001	149.28	(4.87)	8.00
	<u>\$ 772.03</u>	<u>(\$ 4.87)</u>	<u>8.00%</u>

GNMA PASS-THROUGH MATURITIES
(July, 1972)

<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
<u>U. T. AUSTIN - HOUSING SYSTEM REVENUE BONDS, SERIES 1967 - RESERVE FUND:</u>			
GNMA, Pool #121, 8%, due 11/15/2000	\$ 133.67	\$ 7.83	8.00%
GNMA, Pool #184, 8%, due 4/1/2001	372.67	-0-	8.00
GNMA, Pool #548, 8%, due 4/15/2001	94.10	(5.45)	8.00
GNMA, Pool #650, 8%, due 4/15/2001	570.47	(18.60)	8.00
GNMA, Pool #708, 6-1/2%, due 11/15/2001	38.08	1.90	6.50
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	77.03	4.85	6.50
	<u>\$ 1,286.02</u>	<u>(\$ 9.47)</u>	<u>7.87%</u>
<u>U. T. AUSTIN - BUILDING REVENUE BONDS, SERIES 1969</u>			
<u>UTILITY PLANT - STUDENT FEE REVENUE BONDS - RESERVE FUND:</u>			
GNMA, Pool #121, 8%, due 11/15/2000	\$ 859.81	(\$ 49.61)	8.00%
GNMA, Pool #548, 8%, due 4/15/2001	76.60	(4.44)	8.00
GNMA, Pool #920, 8%, due 9/15/2001	58.89	1.03	8.00
	<u>\$ 995.30</u>	<u>(\$ 53.02)</u>	<u>8.00%</u>
<u>U. T. AUSTIN - COMBINED FEE REVENUE BONDS, SERIES 1970 & 1971 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 85.82	\$ -0-	8.00%
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	399.55	19.30	6.50
	<u>\$ 485.37</u>	<u>\$ 19.30</u>	<u>6.77%</u>
<u>U. T. AUSTIN - STUDENT UNION REVENUE BONDS, SERIES 1958 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 122.59	\$ -0-	8.00%
<u>GALVESTON MEDICAL BRANCH - DORMITORY REVENUE BONDS, SERIES 1955 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 1,059.16	\$ -0-	8.00%
GNMA, Pool #852, 6-1/2%, due 1/15/2002	168.20	0.10	6.50
	<u>\$ 1,227.36</u>	<u>\$ 0.10</u>	<u>7.79%</u>
<u>U. T. EL PASO - STUDENT HOUSING REVENUE BONDS OF 1961 - RESERVE FUND:</u>			
GNMA, Pool #852, 6-1/2%, due 1/15/2002	\$ 26.09	\$ 0.78	6.50%
<u>U. T. EL PASO - BUILDING REVENUE BONDS, SERIES 1969 - RESERVE FUND:</u>			
GNMA, Pool #121, 8%, due 11/15/2000	\$ 121.01	\$ 2.57	8.00%
GNMA, Pool #184, 8%, due 4/1/2001	362.86	-0-	8.00
GNMA, Pool #920, 8%, due 9/15/2001	10.38	0.26	8.00
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	308.01	19.34	6.50
	<u>\$ 802.26</u>	<u>\$ 22.17</u>	<u>7.42%</u>
<u>U. T. EL PASO - STUDENT UNION BUILDING REVENUE BONDS, SERIES A AND B, 1967 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 387.38	\$ -0-	8.00%
GNMA, Pool #548, 8%, due 4/15/2001	30.64	(1.78)	8.00
	<u>\$ 418.02</u>	<u>(\$ 1.78)</u>	<u>8.00%</u>

GNMA PASS-THROUGH MATURITIES
(July, 1972)

<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
<u>U. T. EL PASO - COMBINED FEE REVENUE BONDS, SERIES 1970 & 1971 - RESERVE FUND:</u>			
GNMA, Pool #920, 8%, due 9/15/2001	\$ 34.66	\$ 0.56	8.00%
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	34.28	2.15	6.50
	<u>\$ 68.94</u>	<u>\$ 2.71</u>	<u>7.25%</u>
<u>U. T. ARLINGTON - HOUSING SYSTEM REVENUE BONDS - SERIES 1963 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 318.73	\$ -0-	8.00%
GNMA, Pool #708, 6-1/2%, due 11/15/2001	27.36	1.37	6.50
	<u>\$ 346.09</u>	<u>\$ 1.37</u>	<u>7.88%</u>
<u>U. T. ARLINGTON - STUDENT CENTER FEE BONDS, SERIES 1960 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 392.28	\$ -0-	8.00%
<u>U. T. ARLINGTON - GYMNASIUM FEE BONDS - SERIES 1961 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 404.54	\$ -0-	8.00%
<u>U. T. ARLINGTON - STUDENT FEE REVENUE BONDS - SERIES 1964, SERIES 1966, AND SERIES 1968 - RESERVE FUND:</u>			
GNMA, Pool #121, 8%, due 11/15/2000	\$ 63.55	\$ 4.29	8.00%
GNMA, Pool #548, 8%, due 4/15/2001	126.93	(7.36)	8.00
GNMA, Pool #852, 6-1/2%, due 1/15/2002	52.05	2.18	6.50
	<u>\$ 242.53</u>	<u>(\$ 0.89)</u>	<u>7.68%</u>
<u>U. T. ARLINGTON - COMBINED FEE REVENUE BONDS, SERIES 1971 & 1971A - RESERVE FUND:</u>			
GNMA, Pool #708, 6-1/2%, due 11/15/2001	\$ 39.12	\$ 1.96	6.50%
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	28.25	1.36	6.50
	<u>\$ 67.37</u>	<u>\$ 3.32</u>	<u>6.50%</u>

II. TRUST AND SPECIAL FUNDS

TRUST AND SPECIAL FUNDS - INVESTMENT MATTERS.--

REPORT ON SECURITIES TRANSACTIONS.--The following securities transactions have been made for the Trust and Special Funds in August, 1972. The Associate Deputy Chancellor for Investments, Trusts and Lands recommends approval by the Board of Regents of these transactions.

INVESTMENTS ACQUIRED

<u>Par Value</u>	<u>Description and Fund</u>	<u>Total Net Cost</u>	<u>Yield</u>
	<u>SHORT TERM PAPER:</u>		
\$150,000	FMC 4-3/8% Note, due 8/31/72 (\$87,000 - Common Trust Fund 63,000 - Common Trust Fund - Undis- tributed Receipts)	\$ 150,000.00	4.39101%
100,000	FMC 4-1/2% Note, due 10/30/72 (\$90,000 - Board for Lease 1% Fee Fund 10,000 - Office of the President - Various Donors - Various Purposes)	100,000.00	4.535147
31,000	City National Bank 4-7/8% CD, due 11/28/72 (\$ 500 - Center for Middle Eastern Studies - Fund Raising Committee Discretionary Fund 2,000 - Mr. & Mrs. Hines H. Baker Professorship in Law in Field of Jurisprudence 6,000 - Toreador Trust Funds for Salary Supplementation for the School of Law 5,000 - Stiles Professorship in American Studies 10,000 - Stiles Professorship in Comparative Literature 1,000 - DeRosette Thomas Fund for Asa Mitchell Guidance Center 1,000 - J. V. and H. A. Stiles Foundation 5,500 - Alexander Caswell Ellis Fellow- ship in Education)	31,000.00	4.875
37,000	City National Bank 4-7/8% CD, due 11/29/72 (\$14,000 - Brown and Lupton Foundation - Various Donors - Arts & Sciences Foundation 20,000 - Lila Belle Etter Fund 3,000 - C. J. Thomsen Gift)	37,000.00	4.875
4,200	City National Bank 4% CD, due 2/26/73 (Student Property Deposit Scholarship Fund)	4,200.00	4.00

INVESTMENTS DISPOSED OF

<u>Par Value</u>	<u>Description and Fund</u>	<u>Total Net Proceeds</u>	<u>Gain or (Loss)</u>	<u>Yield</u>
<u>U. S. GOVERNMENT OBLIGATIONS:</u>				
See Bond Sales and Maturities Schedule for Detail				
\$11,762.79	Common Trust Fund	\$ 11,762.79	(\$ 315.43)	7.73%
988.47	The William Buchanan Chair in Internal Medicine - DMS	988.47	2.35	7.66
259.32	Reserve for Possible Fire Losses - Temporary Student Housing Units	259.32	3.27	6.50
605.63	Texas Union Building Fund	605.63	55.60	6.50
1,320.90	Student Property Deposit Scholarship Fund	1,320.90	(0.67)	7.26
916.82	Student Property Deposit Scholarship Fund - Temporary	916.82	34.54	6.50
515.34	U.T. System - General Tuition Revenue Bonds, Series 1971 - Reserve Fund	515.34	25.41	6.50
9,572.56	U.T. Austin - Dormitory Revenue Bond Fund, Series 1954 - Reserve Fund	9,572.56	(512.20)	8.00
1,948.00	U.T. Austin - Dormitory Revenue Bonds Fund, Series 1956 - Reserve Fund	1,948.00	(109.61)	8.00
1,230.44	U.T. Austin - Student Housing Revenue Bonds of 1963 - Reserve Fund	1,230.44	(4.24)	8.00
4,374.26	U.T. Austin - Housing System Revenue Bonds, Series 1967 - Reserve Fund	4,374.26	(173.63)	7.96
3,341.39	U.T. Austin - Building Revenue Bonds, Series 1969 - Utility Plant - Student Fee Revenue Bonds - Reserve Fund	3,341.39	(188.99)	8.00
553.49	U.T. Austin - Combined Fee Revenue Bonds, Series 1970 & 1971 - Reserve Fund	553.49	19.41	6.90
216.59	U.T. Austin - Student Union Revenue Bonds, Series 1958 - Reserve Fund	216.59	-0-	8.00
2,597.91	Galveston Medical Branch - Dormitory Revenue Bonds, Series 1955 - Reserve Fund	2,597.91	0.44	7.58
112.71	U.T. El Paso - Student Housing Revenue Bonds of 1961 - Reserve Fund	112.71	3.38	6.50
1,083.23	U.T. El Paso - Building Revenue Bonds, Series 1969 - Reserve Fund	1,083.23	22.29	7.56
1,650.89	U.T. El Paso - Student Union Building Revenue Bonds, Series A and B, 1967 - Reserve Fund	1,650.89	(56.02)	8.00
69.39	U.T. El Paso - Combined Fee Revenue Bonds, Series 1970 & 1971 - Reserve Fund	69.39	2.73	7.10
590.42	U.T. Arlington - Housing System Revenue Bonds - Series 1963 - Reserve Fund	590.42	1.36	7.93
693.10	U.T. Arlington - Student Center Fee Bonds, Series 1960 - Reserve Fund	693.10	-0-	8.00

INVESTMENTS DISPOSED OF
(Continued)

<u>Par Value</u>	<u>Description and Fund</u>	<u>Total Net Proceeds</u>	<u>Gain or (Loss)</u>	<u>Yield</u>
<u>U. S. GOVERNMENT OBLIGATIONS: (Continued)</u>				
\$ 714.76	U.T. Arlington - Gymnasium Fee Bonds - Series 1961 - Reserve Fund	\$ 714.76	\$ -0-	8.00%
4,292.74	U.T. Arlington - Student Fee Revenue Bonds - Series 1964, Series 1966, and Series 1968 - Reserve Fund	4,292.74	(218.37)	7.92
67.40	U.T. Arlington - Combined Fee Revenue Bonds, Series 1971 & 1971A - Reserve Fund	<u>67.40</u>	<u>3.32</u>	<u>6.50</u>
	TOTAL - U. S. Government Obligations	<u>\$ 49,478.55</u>	<u>(\$ 1,405.06)</u>	<u>7.78%</u>
	(TOTAL - LONG TERM INVESTMENTS SOLD)			
<u>SHORT TERM PAPER:</u>				
2,040	City National Bank 5% CD, due 8/25/72 (Davidson Family Scholarship in Home Economics)	\$ 2,040.00	--	5.00%
16,000	City National Bank 4-3/4% CD, due 8/30/72 (\$2,000 - W. H. Francis, Jr. Chair - School of Law 8,000 - Dwight D. Book Scholarship Fund 6,000 - Edward Louis and Alice Laidman Dodd Fellowship Fund)	16,000.00	--	4.75
130,000	FMC 4-1/2% Note, due 8/31/72 (\$120,000 - Common Trust Fund - Undistributed Receipts 10,000 - Josephine Clardy Fox Estate Fund - UTEP)	130,000.00	--	4.655503
63,000	FMC 4-3/8% Note, due 8/31/72 (Common Trust Fund - Undistributed Receipts)	63,000.00	--	4.39101
100,000	FMC 4-5/8% Note, due 8/31/72 (Archer M. Huntington Museum Fund)	100,000.00	--	4.655503
83,000	FMC 4-1/2% Note, due 8/31/72 (\$48,500 - Common Trust Fund - Undistributed Receipts 34,500 - Miss Eloise Alexander Memorial Fund - SAMS)	83,000.00	--	4.524887
134,000	FMC 4-1/2% Note, due 8/31/72 (Common Trust Fund - Undistributed Receipts)	134,000.00	--	4.53915

THE UNIVERSITY OF TEXAS SYSTEM COMMON TRUST FUND

(August, 1972)

STOCK CONVERSION

<u>Securities Converted</u>	<u>Book Value</u>		<u>Principal Cash Required</u>	<u>Yield</u>	<u>(Decrease) in Annual Income</u>
	<u>Issue Converted</u>	<u>Issue Received</u>			
2,100 Shares International Tel. & Tel. Corp. Cumulative Preferred Stock \$2.25 Convertible Series N into					
2,625 Shares International Tel. & Tel. Corp. Common Stock (1-for-1.25 basis)	\$151,145.45	\$151,145.45	-0-	2.07%	(\$1,601.25)

BOND SALES AND MATURITIES

<u>PAR VALUE</u>	<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
\$ 5,501.98	GNMA, Pass-Through Pool #95, 8%, due 12/15/2000	\$ 5,501.98	(\$ 300.96)	8.00%
1,500.21	GNMA, Pass-Through Pool #163, 8%, due 2/15/2001	1,500.21	(82.09)	8.00
2,001.94	GNMA, Pass-Through Pool #548, 8%, due 4/15/2001	2,001.94	(110.11)	8.00
221.35	GNMA, Pass-Through Pool #650, 8%, due 4/15/2001	221.35	(12.17)	8.00
121.80	GNMA, Pass-Through Pool #708, 6-1/2%, due 11/15/2001	121.80	5.18	6.50
1,946.01	GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002	1,946.01	192.85	6.50
469.50	GNMA, Pass-Through Pool #920, 8%, due 9/15/2001	469.50	(8.13)	8.00
<u>\$ 11,762.79</u>		<u>\$ 11,762.79</u>	<u>(\$ 315.43)</u>	<u>7.73%</u>

THE WILLIAM BUCHANAN CHAIR IN INTERNAL MEDICINE - DALLAS MEDICAL SCHOOL

(August, 1972)

BOND SALES AND MATURITIES

\$ 767.99	GNMA, Pass-Through Pool #650, 8%, due 4/15/2001	\$ 767.99	(\$ 14.63)	8.00%
<u>220.48</u>	GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002	<u>220.48</u>	<u>16.98</u>	<u>6.50</u>
<u>\$ 988.47</u>		<u>\$ 988.47</u>	<u>\$ 2.35</u>	<u>7.66%</u>

GNMA PASS-THROUGH MATURITIES
(August, 1972)

<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
<u>RESERVE FOR POSSIBLE FIRE LOSSES - TEMPORARY STUDENT HOUSING UNITS:</u>			
GNMA, Pool #852, 6-1/2%, due 1/15/2002	\$ 259.32	\$ 3.27	6.50%
<u>TEXAS UNION BUILDING FUND:</u>			
GNMA, Pool #852, 6-1/2%, due 1/15/2002	\$ 605.63	\$ 55.60	6.50%
<u>STUDENT PROPERTY DEPOSIT SCHOLARSHIP FUND:</u>			
GNMA, Pool #121, 8%, due 11/15/2000	\$ 39.60	(\$ 1.12)	8.00%
GNMA, Pool #184, 8%, due 4/1/2001	632.45	-0-	8.00
GNMA, Pool #852, 6-1/2%, due 1/15/2002	648.85	0.45	6.50
	<u>\$ 1,320.90</u>	<u>(\$ 0.67)</u>	<u>7.26%</u>
<u>STUDENT PROPERTY DEPOSIT SCHOLARSHIP FUND - TEMPORARY:</u>			
GNMA, Pool #708, 6-1/2%, due 11/15/2001	\$ 190.28	\$ 4.17	6.50%
GNMA, Pool #852, 6-1/2%, due 1/15/2002	726.54	30.37	6.50
	<u>\$ 916.82</u>	<u>\$ 34.54</u>	<u>6.50%</u>
<u>U. T. SYSTEM - GENERAL TUITION REVENUE BONDS, SERIES 1971 - RESERVE FUND:</u>			
GNMA, Pool #708, 6-1/2%, due 11/15/2001	\$ 76.02	\$ 3.80	6.50%
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	439.32	21.61	6.50
	<u>\$ 515.34</u>	<u>\$ 25.41</u>	<u>6.50%</u>
<u>U. T. AUSTIN - DORMITORY REVENUE BOND FUND, SERIES 1954 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 736.42	\$ -0-	8.00%
GNMA, Pool #548, 8%, due 4/15/2001	8,836.14	(512.20)	8.00
	<u>\$ 9,572.56</u>	<u>(\$ 512.20)</u>	<u>8.00%</u>
<u>U. T. AUSTIN - DORMITORY REVENUE BONDS FUND, SERIES 1956 - RESERVE FUND:</u>			
GNMA, Pool #548, 8%, due 4/15/2001	\$ 1,817.85	(\$ 105.37)	8.00%
GNMA, Pool #650, 8%, due 4/15/2001	130.15	(4.24)	8.00
	<u>\$ 1,948.00</u>	<u>(\$ 109.61)</u>	<u>8.00%</u>
<u>U. T. AUSTIN - STUDENT HOUSING REVENUE BONDS OF 1963 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 1,100.29	\$ -0-	8.00%
GNMA, Pool #650, 8%, due 4/15/2001	130.15	(4.24)	8.00
	<u>\$ 1,230.44</u>	<u>(\$ 4.24)</u>	<u>8.00%</u>

GNMA PASS-THROUGH MATURITIES
(August, 1972)

<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
<u>U. T. AUSTIN - HOUSING SYSTEM REVENUE BONDS, SERIES 1967 - RESERVE FUND:</u>			
GNMA, Pool #121, 8%, due 11/15/2000	\$ 134.62	\$ 7.89	8.00%
GNMA, Pool #184, 8%, due 4/1/2001	658.44	-0-	8.00
GNMA, Pool #548, 8%, due 4/15/2001	2,968.39	(172.07)	8.00
GNMA, Pool #650, 8%, due 4/15/2001	497.37	(16.22)	8.00
GNMA, Pool #708, 6-1/2%, due 11/15/2001	37.96	1.90	6.50
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	77.48	4.87	6.50
	<u>\$ 4,374.26</u>	<u>(\$ 173.63)</u>	<u>7.96%</u>
<u>U. T. AUSTIN - BUILDING REVENUE BONDS, SERIES 1969</u>			
<u>UTILITY PLANT - STUDENT FEE REVENUE BONDS - RESERVE FUND:</u>			
GNMA, Pool #121, 8%, due 11/15/2000	\$ 865.95	(\$ 49.97)	8.00%
GNMA, Pool #548, 8%, due 4/15/2001	2,416.13	(140.05)	8.00
GNMA, Pool #920, 8%, due 9/15/2001	59.31	1.03	8.00
	<u>\$ 3,341.39</u>	<u>(\$ 188.99)</u>	<u>8.00%</u>
<u>U. T. AUSTIN - COMBINED FEE REVENUE BONDS, SERIES 1970 & 1971 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 151.62	\$ -0-	8.00%
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	401.87	19.41	6.50
	<u>\$ 553.49</u>	<u>\$ 19.41</u>	<u>6.90%</u>
<u>U. T. AUSTIN - STUDENT UNION REVENUE BONDS, SERIES 1958 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	<u>\$ 216.59</u>	<u>\$ -0-</u>	<u>8.00%</u>
<u>GALVESTON MEDICAL BRANCH - DORMITORY REVENUE BONDS, SERIES 1955 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 1,871.37	\$ -0-	8.00%
GNMA, Pool #852, 6-1/2%, due 1/15/2002	726.54	0.44	6.50
	<u>\$ 2,597.91</u>	<u>\$ 0.44</u>	<u>7.58%</u>
<u>U. T. EL PASO - STUDENT HOUSING REVENUE BONDS OF 1961 - RESERVE FUND:</u>			
GNMA, Pool #852, 6-1/2%, due 1/15/2002	<u>\$ 112.71</u>	<u>\$ 3.38</u>	<u>6.50%</u>
<u>U. T. EL PASO - BUILDING REVENUE BONDS, SERIES 1969 - RESERVE FUND:</u>			
GNMA, Pool #121, 8%, due 11/15/2000	\$ 121.87	\$ 2.58	8.00%
GNMA, Pool #184, 8%, due 4/1/2001	641.12	-0-	8.00
GNMA, Pool #920, 8%, due 9/15/2001	10.45	0.26	8.00
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	309.79	19.45	6.50
	<u>\$ 1,083.23</u>	<u>\$ 22.29</u>	<u>7.56%</u>
<u>U. T. EL PASO - STUDENT UNION BUILDING REVENUE BONDS, SERIES A AND B, 1967 -</u>			
<u>RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 684.44	\$ -0-	8.00%
GNMA, Pool #548, 8%, due 4/15/2001	966.45	(56.02)	8.00
	<u>\$ 1,650.89</u>	<u>(\$ 56.02)</u>	<u>8.00%</u>

GNMA PASS-THROUGH MATURITIES
(August, 1972)

<u>ISSUE</u>	<u>PROCEEDS</u>	<u>PROFIT OR (LOSS)</u>	<u>YIELD</u>
<u>U. T. EL PASO - COMBINED FEE REVENUE BONDS, SERIES 1970 & 1971 - RESERVE FUND:</u>			
GNMA, Pool #920, 8%, due 9/15/2001	\$ 34.91	\$ 0.56	8.00%
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	34.48	2.17	6.50
	<u>\$ 69.39</u>	<u>\$ 2.73</u>	<u>7.10%</u>
<u>U. T. ARLINGTON - HOUSING SYSTEM REVENUE BONDS - SERIES 1963 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 563.14	\$ -0-	8.00%
GNMA, Pool #708, 6-1/2%, due 11/15/2001	27.28	1.36	6.50
	<u>\$ 590.42</u>	<u>\$ 1.36</u>	<u>7.93%</u>
<u>U. T. ARLINGTON - STUDENT CENTER FEE BONDS, SERIES 1960 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 693.10	\$ -0-	8.00%
<u>U. T. ARLINGTON - GYMNASIUM FEE BONDS - SERIES 1961 - RESERVE FUND:</u>			
GNMA, Pool #184, 8%, due 4/1/2001	\$ 714.76	\$ -0-	8.00%
<u>U. T. ARLINGTON - STUDENT FEE REVENUE BONDS - SERIES 1964, SERIES 1966, AND SERIES 1968 - RESERVE FUND:</u>			
GNMA, Pool #121, 8%, due 11/15/2000	\$ 64.00	\$ 4.32	8.00%
GNMA, Pool #548, 8%, due 4/15/2001	4,003.88	(232.09)	8.00
GNMA, Pool #852, 6-1/2%, due 1/15/2002	224.86	9.40	6.50
	<u>\$ 4,292.74</u>	<u>(\$ 218.37)</u>	<u>7.92%</u>
<u>U. T. ARLINGTON - COMBINED FEE REVENUE BONDS, SERIES 1971 & 1971A - RESERVE FUND:</u>			
GNMA, Pool #708, 6-1/2%, due 11/15/2001	\$ 38.99	\$ 1.95	6.50%
GNMA, Pool #1029, 6-1/2%, due 12/15/2001	28.41	1.37	6.50
	<u>\$ 67.40</u>	<u>\$ 3.32</u>	<u>6.50%</u>