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.

GIFT TO THE UNIVERSITY OF TEXAS INSTITUTE OF TEXAN CULTURES

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

<table>
<thead>
<tr>
<th>Donor</th>
<th>Purpose and Condition</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minnie Stevens Piper Foundation&lt;br&gt;Mr. William C. Wiederhold, Executive Director&lt;br&gt;201 North St. Mary's Street&lt;br&gt;San Antonio, Texas 78205</td>
<td>For continuing research on the Negro in Spanish Texas</td>
<td>$6,000</td>
</tr>
</tbody>
</table>
TO THE HONORABLE BOARD OF REGENTS
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The University of Texas Medical School at Houston
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The University of Texas M. D. Anderson Hospital and Tumor Institute at Houston
The University of Texas School of Public Health at Houston
The University of Texas Medical Branch at Houston
The University of Texas Nursing School (System-wide)

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</table>

September 28, 1972
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 $88,855 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.

REPORT OF AMENDMENTS TO THE 1971-72 SYSTEM ADMINISTRATION BUDGET

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:

<table>
<thead>
<tr>
<th>Account Number</th>
<th>Account Title</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>63-0500-0100</td>
<td>Unallocated Operating Account</td>
<td>$ 28,127.17</td>
</tr>
<tr>
<td>63-0844-0100</td>
<td>Consultant for Architectural Restoration of System Properties</td>
<td>432.81</td>
</tr>
<tr>
<td>63-0845-0100</td>
<td>Legal Expenses and Other Services</td>
<td>1,896.45</td>
</tr>
<tr>
<td>63-0846-0100</td>
<td>Space Lease - Commodore Perry Building</td>
<td>1,658.23</td>
</tr>
<tr>
<td>63-0846-0200</td>
<td>Temporary Downtown Parking - System Administration</td>
<td>5,432.84</td>
</tr>
<tr>
<td>63-0850-0050</td>
<td>Maintenance, Operation, and Equipment</td>
<td>9,087.58</td>
</tr>
<tr>
<td>63-0850-0075</td>
<td>Travel</td>
<td>8,769.45</td>
</tr>
<tr>
<td>63-0870-0100</td>
<td>Cooperative Management System Development Project</td>
<td>30,000.00</td>
</tr>
</tbody>
</table>
To: 36-9041-2099  $3,618,000
     36-9043-2099  1,632,000
     $5,250,000

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, M.D.
Chancellor
THE UNIVERSITY OF TEXAS AT AUSTIN

INDEX

October 20, 1972

Meeting

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Travel for Faculty and Staff ....................... M-15

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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.
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.


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. Dougall, Professor of Electrical Engineering. (Travis County)


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 Foikers, 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 $178,186 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-606-72-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, "Archaeological 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 archaeological 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 $22,153 (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 $10,157 (Travis County) for support of research entitled, "Enzymatic Oxidation 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. Biesel, 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, "Immunological 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 Mabry, Professor of Botany.

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, 1975. The research entitled, "Biochemical Systematics Emphasizing Higher Plants," continues under the direction of Dr. Leonard J. Mabry, Jr., Associate Professor of Microbiology.

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 $26,500 (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 GJ-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 CP-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 Organo-metallic 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):

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. Aischuler, 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 25.15c 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 $55,000.00; 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.

M-11
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 Inter-agency 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 archaeological 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)-729, 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.
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 SRP-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 #30-7435-0947 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 MESSIC conference and to work on case preparation for MESSIC 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 Avances, 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)-3371 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)-3371 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.

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Cost to Student per volume</th>
<th>Royalty per author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploration and Empire</td>
<td>W. H. Goetzmann</td>
<td>$3.00</td>
<td>$0.30</td>
</tr>
<tr>
<td>History of the American People, Volume I</td>
<td>Graebner, Fite, White</td>
<td>6.96</td>
<td>0.30</td>
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<tr>
<td>*The Seeds of Politics</td>
<td>A. Orum</td>
<td>5.95</td>
<td>10%</td>
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<tr>
<td>*Introduction to Approximation Theory</td>
<td>Elliott W. Cheney</td>
<td>14.50</td>
<td>15%</td>
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<tr>
<td>*Abstract Harmonic Analysis</td>
<td>Edwin Hewitt</td>
<td>20.90</td>
<td>33-1/3%</td>
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<tr>
<td>*Approximation of Functions</td>
<td>George G. Lorentz</td>
<td>7.25</td>
<td>15%</td>
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<tr>
<td>*The Mathematics of Investment</td>
<td>Roger Osborn</td>
<td>6.75</td>
<td>0.675</td>
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<tr>
<td>*A Survey of Numerical Mathematics Volume I</td>
<td>D. Young, R. Gregory</td>
<td>15.00</td>
<td>20%</td>
</tr>
<tr>
<td>Title</td>
<td>Author(s)</td>
<td>Cost to Student</td>
<td>Royalty per volume per author</td>
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<tr>
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<tr>
<td>Foreign Languages in the Elementary School: A Struggle Against Mediocrity</td>
<td>T. Andersson</td>
<td>$6.75</td>
<td>$0.54</td>
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<tr>
<td>*Guide for the Beginning Choral Director</td>
<td>G. Lamb (ed.)</td>
<td>1.75</td>
<td>None</td>
</tr>
</tbody>
</table>

* 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
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 by 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.

<table>
<thead>
<tr>
<th>DONOR</th>
<th>PURPOSE AND CONDITIONS</th>
<th>AMOUNT</th>
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</thead>
<tbody>
<tr>
<td>1 Mr. and Mrs. L. T. Barrow</td>
<td>Dept. of Geological Sciences Gift of 130 shares of Standard Oil Company (New Jersey) stock for the Alexander Deussen Professorship of Energy Resources Fund</td>
<td>$10,432.50**</td>
</tr>
<tr>
<td>2 *Dwight D. Book Estate c/o Trust Department, San Antonio Loan and Trust Company P. O. Box 1228 San Antonio, Texas 78206</td>
<td>U. T. Austin Regular distribution of income from the Book Estate, to be used for student scholarships</td>
<td>7,819.64</td>
</tr>
<tr>
<td>3 George W. Brackenridge Foundation G. M. Denman, Jr., Trustee 711 Navarro Street San Antonio, Texas 78205</td>
<td>U. T. Austin Contribution to provide scholarship funds for numerous designated students</td>
<td>10,250.00</td>
</tr>
<tr>
<td>4 T. J. Brown and C. A. Lupton Foundation, Inc. Sam P. Woodson, Jr. Managing Director P. O. Box 1378 Fort Worth, Texas 76101</td>
<td>U. T. Austin Contribution to be used for the benefit of the Arts and Sciences Foundation</td>
<td>15,000.00</td>
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<tr>
<td>5 The Clayton Fund E. A. Tribe P. O. Box 2538 Houston, Texas 77001</td>
<td>U. T. Austin Contribution to provide scholarship funds for numerous designated students</td>
<td>7,050.00</td>
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<tr>
<td>6 *Mr. and Mrs. T. J. Fatso, Jr. 1603 Fannin Bank Building Houston, Texas 77025</td>
<td>U. T. Austin Contribution in support of the Memorial Stadium Expansion Program</td>
<td>9,000.00</td>
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<tr>
<td>DONOR</td>
<td>PURPOSE AND CONDITIONS</td>
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<tr>
<td>7 Fondation Nationale pour l'Enseignement de la Gestion des Entreprises 155 Boulevard Hausmann Paris, France</td>
<td>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.</td>
<td>$30,000.00</td>
</tr>
<tr>
<td>8 Ford Motor Company Michael Ference, Jr. Vice President 20000 Rotunda Drive Dearborn, Michigan 48121</td>
<td>College of Engineering Contribution to the Department of Mechanical Engineering to continue the graduate research program in grinding studies</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>9 Houston Endowment Inc. J. H. Creekmore, President P. O. Box 52338 Houston, Texas 77052</td>
<td>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, &quot;Not So Long Ago: Art of the 1920's in Europe and America&quot; $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</td>
<td>$97,500.00</td>
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<tr>
<td>10 Houston Endowment Inc. J. H. Creekmore, President P. O. Box 52338 Houston, Texas 77052</td>
<td>U. T. Austin Contribution to provide scholarships for numerous designated students</td>
<td>$27,500.00</td>
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<tr>
<td>11 The Moody Foundation</td>
<td>College of Business Administration Second payment on grant of $15,000 for the academic excellence program</td>
<td>$5,000.00</td>
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<tr>
<td>Robert E. Baker</td>
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<tr>
<td>Executive Administrator</td>
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<tr>
<td>704 Moody National Bank Building</td>
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<tr>
<td>Galveston, Texas 77550</td>
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<tr>
<td>12 The Moody Foundation</td>
<td>U. T. Austin Contribution to provide scholarship funds for numerous designated students</td>
<td>22,550.00</td>
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<td>Robert E. Baker</td>
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<td>704 Moody National Bank Building</td>
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<tr>
<td>Galveston, Texas 77550</td>
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<tr>
<td>13 *National Asphalt Pave-</td>
<td>College of Engineering Renewal of grant to the Department of Mechanical Engineering for research related to operation of asphalt manufacturing plants</td>
<td>5,000.00</td>
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<td>ment Association</td>
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<tr>
<td>John Gray, Executive Director</td>
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<tr>
<td>6811 Kenilworth Avenue Riverdale, Maryland</td>
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<tr>
<td>20840</td>
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<td></td>
</tr>
<tr>
<td>14 Minnie Stevens Piper Foundation</td>
<td>U. T. Austin Contribution to provide scholarship funds for numerous designated students</td>
<td>11,200.00</td>
</tr>
<tr>
<td>W. C. Wiederhold</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Executive Director</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. O. Box 1137</td>
<td></td>
<td></td>
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<tr>
<td>San Antonio, Texas 76206</td>
<td></td>
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</tr>
<tr>
<td>15 Texas Interscholastic League Foundation</td>
<td>U. T. Austin Contribution to provide scholarship funds for numerous designated students</td>
<td>23,962.50</td>
</tr>
<tr>
<td>R. J. Kidd, Secretary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. O. Box 8028</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Austin, Texas 78712</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16 *The University of Texas Foundation, Inc.</td>
<td>College of Business Administration Contribution in support of Project Classroom 1975, to assist in studies for future utilization of classroom space, problems in teaching, etc.</td>
<td>40,000.00</td>
</tr>
<tr>
<td>P. O. Box 7458</td>
<td></td>
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<tr>
<td>Austin, Texas 78712</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17 Arthur Young Foundation</td>
<td>College of Business Administration Contribution to establish the Arthur Young Distinguished Professorship of Accounting (professorship approved by the Board of Regents at meeting of July 21, 1972)</td>
<td>50,000.00</td>
</tr>
<tr>
<td>Thomas D. Flynn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>President</td>
<td></td>
<td></td>
</tr>
<tr>
<td>277 Park Avenue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New York, New York 10017</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The following nonmonetary gifts have also been received:

<table>
<thead>
<tr>
<th>DONOR</th>
<th>PURPOSE AND CONDITIONS</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 Mrs. Lewis Balamuth&lt;br&gt;Box 413&lt;br&gt;Southampton, New York 11968</td>
<td>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</td>
<td>$150.00**</td>
</tr>
<tr>
<td>19 Adrian H. Goldstone&lt;br&gt;35 Lee Street&lt;br&gt;Mill Valley, California 94941</td>
<td>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</td>
<td>375.00**</td>
</tr>
<tr>
<td>20 Adrian H. Goldstone&lt;br&gt;35 Lee Street&lt;br&gt;Mill Valley, California 94941</td>
<td>Humanities Research Center Gift of a miscellaneous collection of book catalogues, manuscripts, and other materials relating to well-known authors</td>
<td>2,450.00**</td>
</tr>
<tr>
<td>21 Alfred A. Knopf&lt;br&gt;201 East 50th Street&lt;br&gt;New York, New York 10022</td>
<td>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</td>
<td>775.00**</td>
</tr>
<tr>
<td>22 *Alfred A. Knopf&lt;br&gt;201 East 50th Street&lt;br&gt;New York, New York 10022</td>
<td>Humanities Research Center Gift of a collection of books for the Alfred A. and Blanche W. Knopf Library</td>
<td>650.00**</td>
</tr>
<tr>
<td>23 *Mr. and Mrs. A. J. Thaman, Jr.&lt;br&gt;2209 New Jersey Street&lt;br&gt;Baytown, Texas 77520</td>
<td>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</td>
<td>600.00**</td>
</tr>
<tr>
<td>24 The Tinker Foundation&lt;br&gt;Martha T. Muse, President&lt;br&gt;643 Madison Avenue&lt;br&gt;New York, New York 10022</td>
<td>Humanities Research Center Collection of fine volumes and other items from the library of Edward Larocque Tinker</td>
<td>25,000.00**</td>
</tr>
<tr>
<td>25 Mrs. O. Douglas Weeks&lt;br&gt;1606 Northwood Road&lt;br&gt;Austin, Texas 78703</td>
<td>Humanities Research Center Gift of about 60 books dating from 1790 to 1870 from the Devereux Library to be added to the Texas Collection</td>
<td>1,350.00**</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Item, Department, Title, Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Full-time Salary No. Mos. Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL ADMINISTRATION AND STUDENT SERVICES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Office of the President</strong></td>
<td></td>
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</tr>
<tr>
<td>Transfer of Funds</td>
<td>1. Amount of Transfer - $3,000</td>
<td></td>
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</tr>
<tr>
<td>To: Office of the President - Maintenance and Operation</td>
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<tr>
<td>From: Unallocated Maintenance and Operation</td>
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</tr>
<tr>
<td>Funds were transferred to meet unanticipated operational needs. (RBC# 3648)</td>
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</tr>
<tr>
<td><strong>Office of the Vice President for Student Affairs</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Transfer Between Dissimilar Appropriations</td>
<td>2. Amount of Transfer - $500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To: Travel</td>
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<td></td>
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<tr>
<td>From: Consultant Fees</td>
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<tr>
<td>Additional funds were required to allow for unanticipated travel expense. (RBC# 3629)</td>
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<td></td>
</tr>
<tr>
<td><strong>Office of the Vice President for Academic Affairs</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer Between Dissimilar Appropriations</td>
<td>3. Amount of Transfer - $3,739</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To: Maintenance, Operation and Equipment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>From: Travel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To transfer funds needed to cover operational expenses for the remainder of the fiscal year. (RBC# 3739)</td>
<td></td>
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</tr>
<tr>
<td><strong>Office of Accounting</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interdepartmental Transfer</td>
<td>4. Amount of Transfer - $1,459</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To: Office of Accounting - Classified Personnel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>From: Purchasing Office - Classified Personnel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Funds were needed to pay the salary of a Senior Procurement Officer for the period July 1 through August 31, 1972. (RBC# 3488)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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) 8/1 - 8/31 100 12 $20,500
   (RBC# 3601)

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)
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)
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 HUMANITIES
Oriental 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)
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)
### 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# 3819)

**Transfer**  
**Academic Rate Stipend**  
7/16 - 8/31  
100  
$21,000  
$3,000

#### Government

**Transfer of Funds**

25. **Amount of Transfer** - $1,104  
   **To:** Government - Maintenance and Operation  
   **From:** Unallocated Maintenance and Operation  
   Government $312L "Law and Order in American Society" is a course for which students pay a supplementary fee. This transfer is to reimburse the Government Department for 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)
College of Natural Sciences

Office 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)
<table>
<thead>
<tr>
<th>Item, Department, Title, Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Full-time Salary No.</th>
<th>Rate</th>
</tr>
</thead>
</table>

**COLLEGE OF NATURAL SCIENCES** (Continued)

**Mathematics**

Appointment

Professor

| 33. Edwin Hewitt (Tenure) | 8/1 - 8/31 | 100 | Academic Rate | $33,000 |

Special Faculty Assignment

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 storerom.

(RBC# 3352)

**DIVISION OF GENERAL AND COMPARATIVE STUDIES**

**Language 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)
Full-time Salary

<table>
<thead>
<tr>
<th>Item, Department, Title, Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Full-time Salary</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

**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)
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 EDUCATION

Curriculum 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 ENGINEERING

Office 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)
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)


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)
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 ARTS

Office 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# 3854)
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 Stipend
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 ($261,174)
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)
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 RESEARCH

Bureau 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)
<table>
<thead>
<tr>
<th>Item, Department, Title, Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Full-time Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ORGANIZED RESEARCH (Continued)</strong></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Center for Highway Research and Bureau of Engineering Research**

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

Associate Professor 6/1 - 8/31 37.5 Academic Rate $14,200 Academic Stipend $1,774

(RBC# 3253, 3442)

**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)
<table>
<thead>
<tr>
<th>Item, Department, Title, Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Full-time Salary Rate</th>
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<tbody>
<tr>
<td><strong>ORGANIZED RESEARCH (Continued)</strong></td>
<td></td>
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<tr>
<td><strong>Center for Numerical Analysis</strong></td>
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<tr>
<td><strong>Appointment</strong></td>
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</tr>
<tr>
<td>Research Scientist (Faculty)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>68. Richard H. Bartels (Non-tenure)</td>
<td>8/1 - 8/31</td>
<td>50</td>
<td>9 $12,000</td>
</tr>
<tr>
<td>Source of Funds: Transfer from the Center's Classified Salaries Account</td>
<td></td>
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<tr>
<td>Academic Status: Assistant Professor (Computer Sciences) (RBC# 3490, 3634)</td>
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<tr>
<td><strong>Reappointment</strong></td>
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</tr>
<tr>
<td>Director</td>
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</tr>
<tr>
<td>69. David M. Young, Jr. (Tenure)</td>
<td>8/10 - 8/31</td>
<td>70</td>
<td>9 24,000</td>
</tr>
<tr>
<td>Previous appointment was at the same rate.</td>
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<tr>
<td>Academic Status: Professor (Mathematics) (RBC# 3639)</td>
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<tr>
<td><strong>Reappointment</strong></td>
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<tr>
<td>Research Scientist (Faculty)</td>
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<tr>
<td>70. Robert T. Gregory (Tenure)</td>
<td>8/1 - 8/31</td>
<td>50</td>
<td>9 23,500</td>
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<tr>
<td>Academic Status: Professor (Computer Sciences) and (Mathematics) (RBC# 3702)</td>
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<tr>
<td><strong>Center for Relativity Theory</strong></td>
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<tr>
<td><strong>Transfer Between Dissimilar Appropriations</strong></td>
<td></td>
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</tr>
<tr>
<td>71. Amount of Transfer - $930</td>
<td>To: Administrative and Professional Salaries</td>
<td>From: Visiting Lecturers and Consultants</td>
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<tr>
<td>Funds were used for partial support of the salary of a member of the professional staff. (RBC# 3804)</td>
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<td><strong>Transfer Between Dissimilar Appropriations</strong></td>
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<tr>
<td>72. Amount of Transfer - $450</td>
<td>To: Classified Personnel</td>
<td>From: Visiting Lecturers and Consultants</td>
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<tr>
<td>Funds were needed for temporary summer personnel. (RBC# 3544)</td>
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<tr>
<td>Item, Department, Title, Name</td>
<td>Period of Appointment</td>
<td>% Time</td>
<td>Full-time Salary No. Mos. Rate</td>
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<td><strong>ORGANIZED RESEARCH</strong> (Continued)</td>
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<td><strong>Center for Research in Water Resources</strong></td>
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<td><strong>Appointment</strong></td>
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<tr>
<td>Technical Director</td>
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<tr>
<td>73. Leo R. Beard</td>
<td>7/24 - 8/31</td>
<td>100</td>
<td>12</td>
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<tr>
<td>(RBC# 3724, 3725)</td>
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<tr>
<td>Research Engineer (Faculty)</td>
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<tr>
<td>74. Walter L. Moore (Tenure)</td>
<td>7/18 - 7/31</td>
<td>100</td>
<td>9</td>
</tr>
<tr>
<td>Academic Status:</td>
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<tr>
<td>Professor</td>
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<tr>
<td>(Civil Engineering)</td>
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<tr>
<td>(RBC# 3606)</td>
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<tr>
<td><strong>Transfer Between Dissimilar Appropriations</strong></td>
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<tr>
<td>75. Amount of Transfer - $260</td>
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<tr>
<td>To: Maintenance, Operation and Equipment</td>
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<tr>
<td>From: Classified Salaries</td>
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<tr>
<td>Funds were needed to purchase supplies.</td>
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<tr>
<td>(RBC# 3742)</td>
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<td><strong>Transfer Between Dissimilar Appropriations</strong></td>
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<tr>
<td>76. Amount of Transfer - $120</td>
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<td>To: Library Acquisitions</td>
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<tr>
<td>From: Administrative and Professional Salaries ($25)</td>
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<td>Classified Salaries ($50)</td>
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<tr>
<td>Travel ($45)</td>
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<tr>
<td>Transfer funds needed to purchase books for the Center's library.</td>
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<tr>
<td>(RBC# 3719, 3720, 3716)</td>
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<td><strong>Transfer Between Dissimilar Appropriations</strong></td>
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<tr>
<td>77. Amount of Transfer - $86</td>
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<tr>
<td>To: Classified Salaries</td>
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<tr>
<td>From: Maintenance, Operation and Equipment ($50)</td>
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<tr>
<td>Library Acquisitions ($6)</td>
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<td>Computer Rental and Purchased Services ($30)</td>
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<td>Funds were needed to pay the salary of a summer employee.</td>
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<tr>
<td>(RBC# 3533, 3826, 3824)</td>
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<tr>
<td><strong>Center for Structural Studies</strong></td>
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<tr>
<td><strong>Transfer Between Dissimilar Appropriations</strong></td>
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<tr>
<td>78. Amount of Transfer - $8,869</td>
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<tr>
<td>To: Classified Personnel Salaries</td>
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<tr>
<td>From: Computer Rental and Purchased Services ($632)</td>
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<tr>
<td>Maintenance and Operation ($8,237)</td>
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<tr>
<td>Reallocation of the Center's funds to provide for salaries of staff currently employed.</td>
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<tr>
<td>(RBC# 3620, 3622)</td>
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</table>
ORGANIZED RESEARCH (Continued)

Communication Center
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)

Division of Natural Resources and Environment
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)

Humanities Research Center
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)

Laboratory for Computer-Assisted Instruction
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)
ORGANIZED RESEARCH (Continued)

Learning Disabilities Center
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)

Marine Science Institute at Port Aransas
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 Contributions in Marine Science.
(RBC# 3737)

Population Research Center
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)

Research in Astronomy
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)
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)
Division of Extension

Office of the Dean

Appointment
Assistant to the Dean
92a. Albert E. Starkey
(RBC# 3677)

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)
UNALLOCATED

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
Appoint
Research Engineer (Faculty)
97. Harry L. Kent (Tenure)

<table>
<thead>
<tr>
<th>Appointment</th>
<th>Period of</th>
<th>%</th>
<th>Full-time Salary</th>
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<tr>
<td></td>
<td>Date</td>
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<td>Rate</td>
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<td></td>
<td>7/1-8/31</td>
<td>50</td>
<td>$ 16,400</td>
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Sources of Funds:
Mechanical Engineering Revolving Fund
7/1 - 7/25
Interagency Contract Funds
7/26 - 8/31

Concurrent Employment:
Mechanical Engineering Professor
6/1 - 8/31

$16,400
$2,733

ACADEMIC DEVELOPMENT FUNDS

Marketing Administration
Appoint
Social Science Research Associate (Faculty)
98. Robert A. Peterson (Non-tenure)

<table>
<thead>
<tr>
<th>Appointment</th>
<th>Academic Rate</th>
<th>Stipend</th>
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<tr>
<td></td>
<td>$14,000</td>
<td>$1,750</td>
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</table>

Academic Status:
Assistant Professor
(Marketing Administration)
(RBC# 3575)
### SPONSORED PROJECTS

#### International Office

<table>
<thead>
<tr>
<th>Item, Department, Title, Name</th>
<th>Appointment</th>
<th>% Time</th>
<th>Full-time Salary</th>
<th>Source of Funds</th>
<th>Academic Status</th>
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<tbody>
<tr>
<td><strong>Coordinator</strong></td>
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<tr>
<td>99. John A. Walter (Tenure)</td>
<td>7/16 - 8/31</td>
<td>50</td>
<td>$16,200</td>
<td>Institute of International Education Grant</td>
<td>Professor (English) (RBC# 3659)</td>
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<td><strong>Coordinator</strong></td>
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<td>Institute on International Education Exchange Grant</td>
<td>Associate Professor (Speech) (RBC# 3663)</td>
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<tr>
<td>100. Martin T. Todaro (Tenure)</td>
<td>7/16 - 8/31</td>
<td>100</td>
<td>12,000</td>
<td>Institute of International Education Grant</td>
<td>Associate Professor (Electrical Engineering) (RBC# 3658)</td>
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<td><strong>Associate Professor</strong></td>
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<td>Institute of International Education Grant</td>
<td>Professor (Speech) (RBC# 3660)</td>
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<tr>
<td>101. Roy R. Krezdorn (Tenure)</td>
<td>7/17 - 8/25</td>
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<td>12,000</td>
<td>Institute of International Education Grant</td>
<td>Associate Professor (Speech) (RBC# 3661)</td>
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<td>Institute of International Education Grant</td>
<td>Professor (Speech) (RBC# 3660)</td>
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<td>102. Robert C. Jeffrey (Tenure)</td>
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<td>Associate Professor (Speech) (RBC# 3661)</td>
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<td>103. Ora A. Bennett (Non-Tenure)</td>
<td>7/16 - 8/31</td>
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<td>9,000</td>
<td>Institute of International Education Grant</td>
<td>Associate Professor (Speech) (RBC# 3661)</td>
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<tr>
<td>Item, Department, Title, Name</td>
<td>Period of Appointment</td>
<td>% Time</td>
<td>Full-time Salary</td>
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<td><strong>Anthropology</strong></td>
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<td>Appointment</td>
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<tr>
<td>Research Scientist (Faculty)</td>
<td>6/1 - 7/15</td>
<td>80</td>
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### SPONSORED PROJECTS (Continued)

#### Astronomy

Change of Status and Reappointment

**Project Director (Faculty)**

108. Gerard De Vaucouleurs (Tenure)

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Source of Funds: Jet Propulsion Laboratory Project

Academic Status: Professor (Astronomy) (RBC# 3506, 3505, 3568)

#### Chemistry

Reappointment

**Research Scientist (Faculty)**

109. Nathan L. Bauld (Tenure)

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Previous appointment was at the same rate.

Academic Status: Associate Professor (Chemistry) (RBC# 3662)

#### Computer Sciences

Appointment

**Research Scientist (Faculty)**

110. Donald I. Good (Non-Tenure)

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Academic Status: Assistant Professor (Computer Sciences) (RBC# 3636)

#### Computer Sciences and Computation Center

Appointment

**Research Scientist (Faculty)**

111. James C. Browne (Tenure)

**Computation Center - Revolving Fund Account**

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**Computer Sciences - NSF Grant Funds**

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## SPONSORED PROJECTS (Continued)

### Physics

#### Appointment

Research Scientist (Faculty)

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Research Scientist (Faculty)

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### Zoology

#### Appointment

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Research Scientist (Faculty)

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Reappointment

Project Director (Faculty)

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**SPONSORED PROJECTS (Continued)**

**Special Education**

**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)

**Chemical Engineering**

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)

**Electrical Engineering**

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)
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<td>136. Robert C. Rooney</td>
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### SPONSORED PROJECTS

#### Center for Highway Research

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#### Center for the Study of Human Resources

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<td>SPONSORED PROJECTS (Continued)</td>
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<td><strong>Computer-Based Education Project</strong></td>
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<tr>
<td>Assistant Professor</td>
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<tr>
<td>144. Harriette A. Gouldmann (Non-Tenure) 6/15 - 8/15</td>
<td>37.5</td>
<td>$12,000 $1,000</td>
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<td>145. Gayle C. M. Browne (Non-Tenure) 6/15 - 7/31</td>
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<td>6/15 - 7/31 17</td>
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<td>146. Dwight R. Deal</td>
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<td>To: Research Scientist Associate V</td>
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<td>7/10 - 8/2 100</td>
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<td>8/3 - 8/31 100</td>
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<td>Research Engineer Associate (Faculty) 147. Jared E. Hazleton (Tenure)</td>
<td></td>
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<td>9 18,200</td>
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<td>7/16 - 8/31 100</td>
<td>9</td>
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<tr>
<td>Associate Professor (Civil Engineering) (RBC# 3671)</td>
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<td>Item, Department, Title, Name</td>
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<td>Full-time Salary No.</td>
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<td>Electronics Research Center</td>
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<tr>
<td>Change of Status Research Engineer (Faculty)</td>
<td>149. William W. Robertson (Tenure)</td>
<td>7/16 - 8/31</td>
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<tr>
<td>To:</td>
<td>7/16 - 8/31</td>
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<td>Academic Status: Professor (Physics) (RBC# 3675)</td>
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<td>Molecular Physics Group</td>
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<td>Appointment Principal Investigator</td>
<td>150. Frederick A. Matsen (Tenure)</td>
<td>7/1 - 8/31</td>
<td>100</td>
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<td>Source of Funds: NSF Grant</td>
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<td>Academic Status: Professor (Chemistry) and (Physics) (RBC# 3609)</td>
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<tr>
<td>Port Aransas Marine Science Institute</td>
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<tr>
<td>Appointment Research Scientist (Faculty)</td>
<td>151. Carl H. Oppenheimer (Tenure)</td>
<td>8/1 - 8/31</td>
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<td>Source of Funds: Interagency Contract - Galveston Bay Project</td>
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<tr>
<td>Science Education Center and Geological Sciences</td>
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<td>Appointment Research Scientist (Faculty)</td>
<td>152. Robert E. Boyer (Tenure)</td>
<td>6/1 - 7/15</td>
<td>100</td>
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<td>Science Education Center - NSF Grant Funds</td>
<td>7/17 - 8/11</td>
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<td>Academic Status: Professor (Geological Sciences) (RBC# 3610, 3180)</td>
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</table>
SPONSORED PROJECTS

Science Education Center and Geological Sciences (Continued)

Appointment
153. Rolland B. Bartholomew (Non-Tenure)

Science Education Center
Assistant Professor
6/1 - 7/15
100

Research Scientist (Faculty)
8/12 - 8/31
100

Geological Sciences
Research Scientist (Faculty)
7/17 - 8/11
9

Sources of Funds:
NSF Grants

Academic Status:
Assistant Professor
(Geological Sciences) and
(Curriculum and Instruction)
(RBCP 3607, 3772, 3101)

Extension Teaching and Field Service Bureau

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)

AGENCY FUNDS

Bureau of Public School Service

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)

AUXILIARY ENTERPRISES

Physical Instruction

Appointment
Associate Professor
156. Carolyn Hewatt (Tenure)

7/16 - 8/31
100

Source of Funds:
Non-student Summer Program Fees
(RBC# 3700)
<table>
<thead>
<tr>
<th>Item, Department, Title, Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Full-time Salary</th>
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<td><strong>AUXILIARY ENTERPRISES</strong></td>
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<td>Physical Instruction (Continued)</td>
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<tr>
<td>Assistant Professor</td>
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<tr>
<td>157. Jo E. Spearman (Non-Tenure)</td>
<td>7/16 - 8/31</td>
<td>100</td>
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<td>Source of Funds:</td>
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<td>158. Barbara B. Moffitt</td>
<td>7/16 - 7/31</td>
<td>50</td>
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<td>7/16 - 8/31</td>
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<td>(RBC# 3704)</td>
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<td><strong>Gymnasium Store</strong></td>
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<td>Transfer between Dissimilar Appropriations</td>
<td>161. Amount of Transfer - $383</td>
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<td></td>
<td>To: Salaries</td>
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<td></td>
<td>From: Allocation for Budget Adjustments</td>
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<td></td>
<td>To provide for a replacement of an employee absent on sick leave.</td>
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<td>(RBC# 3368)</td>
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<td><strong>Intramural Sports - Women</strong></td>
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<td>Transfer between Dissimilar Appropriations</td>
<td>162. Amount of Transfer - $600</td>
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<td></td>
<td>To: Other Operating Expenses</td>
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<td>From: Wages</td>
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<td>To provide funds for the purchase of ten tennis nets for courts at 51st and Guadalupe Streets.</td>
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</table>
### AUXILIARY ENTERPRISES

#### Special Concessions

**Transfer of Funds**

163. Amount of Transfer - $2,500

To: Emergency Scholarships

From: Unallocated Projects

To provide additional scholarship funds. (RBC# 3745)

#### Student Government - Office of the Students' Attorney

**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)

#### Student Health Center

**Appointment**

Physician, General Medicine

165. William S. Thompson

(RBC# 3733)

Period of Appointment: 8/1 - 8/31

% Time: 100

Rate: $21,000

Physician, Specialist, Orthopedics

166. Gary N. Pamplin

(RBC# 3598)

Period of Appointment: 7/1 - 8/31

% Time: 33

Rate: $30,000

**Leave of Absence**

Physician, Specialist, Gynecology

167. J. William Hearn

Term of Leave: 8/16 - 8/28

(RBC# 3600)

Physician, General Medicine

168. Leonard D. McLin

Term of Leave: 7/1 - 8/6

(RBC# 3516, 3752)

**Resignation**

Physician, Specialist, Gynecology

169. Gary R. Jones

Date of Resignation: 11/1 - 8/31

(RBC# 2096)
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 FUNDS

Chemistry

Appointment

Research Scientist (Faculty)

171. Charles G. Wade (Non-Tenure)

Current Restricted - Welch Foundation Grant 6/1 - 6/30 100 9 $11,000

Government Contract - NIH Grant 8/1 - 8/31 100 9 11,000

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 $12,200 $1,250

From: 8/1 - 8/31 100 17,260 1,356

Source of Funds:
Current Restricted - Robert A. Welch Foundation Grant

Academic Status:
Associate Professor
(Chemistry)
(RBC# 3731)
<table>
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<tr>
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<td><strong>Management</strong></td>
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<td>175. Michael J. Maggard (Non-Tenure)</td>
<td>7/16 - 8/31</td>
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<td>176. Gary R. Dowling (Non-Tenure)</td>
<td>7/16 - 8/31</td>
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<td>10,000</td>
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<td><strong>Civil Engineering - Environmental Health Engineering</strong></td>
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<td>177. Michael J. Homewick (Tenure)</td>
<td>7/1 - 8/31</td>
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Source of Funds:
- Paul J. Thompson - DeWitt C. Reddick Society (RBC# 3504)
- Current Restricted - Petroleum Land Management Fund
- Assistant Professor (Management) (RBC# 3574)
- Current Restricted - Chemical Engineering - Industrial Grants-Various Donors
- Assistant Professor (Chemical Engineering) (RBC# 3633)
- Bureau of Engineering Research
- Current Restricted Fund - Texas Electric Service Company
- Associate Professor (Civil Engineering) (RBC# 3581)
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)
179. Rudolph C. Doenges (Tenure) 6/1 - 7/15 100 Academic Rate $15,300 Stipend $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)
CURRENT RESTRICTED FUNDS

Fine 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 $ 12,650
Sources of Funds:
   Current Restricted - Spencer Fellowship Grant
   7/1 - 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 FUNDS

Texas 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

<table>
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<tr>
<th>Item, Department, Title, Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
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</table>

SCHOOL OF ARCHITECTURE

Appointment
Assistant Professor
1. Gerlinde Leiding (Non-tenure)
   (RBC# 3632)
   7/16 - 8/31 100 $11,300 $1,883

COLLEGE OF HUMANITIES

French 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 African Languages and Literatures
Change of Status
Assistant Professor
4. Yehuda Shamir (Non-tenure)
   6/1 - 7/15 10,800 ---
   7/16 - 8/31 100 10,800 1,800
   6/1 - 7/15 100 10,800 1,800

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 5612 following Second Term registration.
   (RBC# 3475)
### COLLEGE OF HUMANITIES (Continued)

#### Spanish and Portuguese

**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)

#### COLLEGE OF NATURAL SCIENCES

**Astronomy**

Appointment  
**Professor**  
7. Gerard De Vaucouleurs (Tenure)  
6/5 - 6/24  
100  
$ 21,000  
$ 1,500  
(RBC# 3410)

**Geological Sciences**

Appointment  
**Lecturer**  
8. Joseph H. McGowen (Non-tenure)  
7/24 - 8/11  
100  
10,800  
1,350  
(RBC# 3761)

**Change of Status**

**Professor**  
9. Robert E. Boyer (Tenure)  
8/12 - 8/31  
100  
21,500  
2,250  
From:  
7/31 - 8/19  
100  
21,500  
2,250  
(RBC# 3201)

**Professor**  
10. Alan J. Scott (Tenure)  
7/24 - 8/11  
100  
18,000  
2,250  
From:  
6/1 - 6/23  
100  
18,000  
2,250  
(RBC# 3753)

#### Home Economics

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  
6/15 - 7/31  
17  
10,500  
300  
(RBC# 3763, 3529, 3348)
COLLEGE OF NATURAL SCIENCES

Home Economics (Continued)

Appointment

Assistant Professor
12. Harriette A. Guldmann (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

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.

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

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

Remove from Summer Session Budget.

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

Economics

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)
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<thead>
<tr>
<th>Item, Department, Title, Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Academic Rate</th>
<th>Summer Stipend</th>
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<td>18. John C. Archer (Non-tenure)</td>
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<td>% Time</td>
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<td>Change of Status Associate Professor 22. Robert B. Williams (Tenure)</td>
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<td>% Time</td>
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<td>Reallocation of Faculty Salaries funds within this College to provide support where needed. (RBC# 3344)</td>
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<td>28. John J. McKetta (Tenure)</td>
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<td>30. Amount of Transfer - $2,651</td>
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<td>To: Mechanical Engineering - Faculty Salaries</td>
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<td>31. David L. Deming (Non-tenure)</td>
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<td>34. Julie H. Bichteler (Non-tenure)</td>
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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.

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

*Source of Funds: Departmental Salaries unless otherwise specified.*
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Explanation</th>
<th>Present Status</th>
<th>Proposed Status</th>
<th>Effective Dates</th>
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<tbody>
<tr>
<td>6.</td>
<td>Carolyn M. Evertson</td>
<td>Social Science Research Associate II</td>
<td>Social Science Research Associate V</td>
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<td>Research and Development Center for Teacher Education</td>
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<td>7.</td>
<td>Rodolfo R. Garza</td>
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<td>Student Development Specialist II</td>
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<td>(RBC# 3678)</td>
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<td>8.</td>
<td>Barry N. Moore</td>
<td>Research Scientist Assistant II</td>
<td>Research Scientist Associate II</td>
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<td>Physics</td>
<td>Salary Rate</td>
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<td>Bureau of Engineering Research</td>
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<td></td>
<td></td>
<td>Source of Funds: Texas Atomic Energy Research Foundation Funds (RBC# 3819)</td>
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<td>9.</td>
<td>John P. Pedracine</td>
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<td>College of Engineering Machine Shop Mechanical Engineering</td>
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<td>(RBC# 3672)</td>
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<td>10.</td>
<td>Andre R. Polome</td>
<td>Technical Staff Assistant III</td>
<td>Humanities Research Associate II</td>
<td>7/20 - 8/19</td>
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<td>Language Laboratories Linguistics</td>
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<td>Source of Funds: NSF - University Science Development Program Funds (RBC# 3686)</td>
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<td>Effective Dates</td>
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<td>11.</td>
<td>Stephen A. Underwood (Non-tenure) Electronics Research Center</td>
<td>Research Engineer Assistant II (F.T.)</td>
<td>Assistant Professor (½ T.)</td>
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<td>Salary Rate</td>
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<td>6/1/72</td>
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<td>Electrical Engineering</td>
<td>Mathematics and Zoology - USPHS Contract Funds</td>
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<td>Academic Rate</td>
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<td>Salary Rate</td>
<td>$6,168</td>
<td>$9,240</td>
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</tbody>
</table>

Sincerely yours,

Stephen H. Spurr
President
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  
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 $4.55 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.  

<table>
<thead>
<tr>
<th>Donor</th>
<th>Purpose and Condition</th>
<th>Amount</th>
</tr>
</thead>
</table>
| 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 | $1,400.00 |
3. *Dr. Charles L. Sonnichsen
Various manuscripts, books $ 6,000.00
% Arizona Historical Society
papers, journals, and (Estimate)
949 East Second Street
pamphlets for the
Tucson, Arizona 85719
Library

*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 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. 0074 (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 $8,202.00. 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 $226.00. 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, STRS-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. DAAD07-73-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.
10. Contract No. F29651-73-M-0764, dated August 14, 1972, whereby the Contracting Officer, Base Procurement Office, P. O. Drawer B, 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 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
   To: Office of the Director of Admissions and Operations - Wages
       Office of the Director of Admissions and Operations - Maintenance and Operation
   For: To provide additional funds for the Office of Admissions and Operations for the adjustment of the original budget division. (RBC 461)

   2. Transfer of Funds:
      From: Maintenance and Operation
      To: Wages
      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. (REC 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. (REC 500)

Student Counseling Service

5. Transfer of Funds:
   From: Unallocated Maintenance and Operation
   To: Maintenance and Operation
   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)

RESEASON INSTRUCTION

SCHOOL OF EDUCATION

Curriculum and Instruction

7. Transfer of Funds:
   From: Maintenance and Operation
   To: Wages
   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. (REC 533)
RECOMMENDED AMENDMENTS TO 1971-72 BUDGET (CONTINUED)
EDUCATIONAL AND GENERAL (CONTINUED)
RESIDENT INSTRUCTION (CONTINUED)
SCHOOL OF LIBERAL ARTS

History
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 SCIENCE

Biological 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 re-
    mainder 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.
<table>
<thead>
<tr>
<th>Type of Change</th>
<th>Department &amp; Name</th>
<th>Rank</th>
<th>Summer Term</th>
<th>Nine-Months Rate</th>
<th>1972 Summer Session Budget</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td>Addition</td>
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<td></td>
<td>Amount</td>
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<td><em>(budgeted less than nine-months rate due to limitation of funds)</em></td>
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<td>F. Briggs Flores (1/2 Time)</td>
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<td>Appointment</td>
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<td><strong>Curriculum and Instruction</strong></td>
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<td><strong>Educational Psychology and Guidance</strong></td>
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<tr>
<td>Appointment</td>
<td>Carolyn L. Cason, 1/2 Time (Visiting)</td>
<td>Lecturer</td>
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<tr>
<td>Appointment</td>
<td>Gerald J. Cason, 1/2 Time (Visiting)</td>
<td>Lecturer</td>
<td>2nd</td>
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<td>1,000</td>
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<tr>
<td>Type of Change</td>
<td>Department &amp; Name</td>
<td>Rank</td>
<td>Summer Term</td>
<td>Nine-Months Rate</td>
<td>Addition</td>
</tr>
<tr>
<td>---------------</td>
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<td>Resignation</td>
<td>Howard G. Applegate</td>
<td>Professor</td>
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<td>Calvin E. Woods</td>
<td>Professor</td>
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<td>Appointment</td>
<td>Joseph S. Lambert (Part-time)</td>
<td>Professor</td>
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<td>William L. Craver, Jr.</td>
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<td>Kenneth S. Edwards, Jr.</td>
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<td>Loren G. Janzen</td>
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<td>$9,400</td>
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<td>Karen G. Ramirez (1/2 Time)</td>
<td>Instructor</td>
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<td>$8,500</td>
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<td>Hector M. Serrano (1/2 Time)</td>
<td>Instructor</td>
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<td>$8,000</td>
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<td>Arnold N. Sparks (1/2 Time)</td>
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<td>María E. Garcia (3/4 Time)</td>
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<td></td>
<td>Julia F. Herrera</td>
<td>Instructor</td>
<td>2nd</td>
<td>$8,800</td>
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<td>Type of Change</td>
<td>Department &amp; Name</td>
<td>Rank</td>
<td>Summer Term</td>
<td>Nine-Months Rate</td>
<td>Addition Amount</td>
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<tr>
<td>Music</td>
<td>Engbroe A. Thornodsgaard</td>
<td>T</td>
<td>Professor</td>
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<td>$14,500</td>
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<td>Appointment</td>
<td>Gene Lewis</td>
<td>Asst. Prof.</td>
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<td>Appointment</td>
<td>Wilbur L. Moreland</td>
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<td>Appointment</td>
<td>Phoebe Notnick (Part-time)</td>
<td>Instructor</td>
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<tr>
<td>Appointment</td>
<td>Mary E. Thomas (Part-time)</td>
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<tr>
<td>Appointment</td>
<td>C. K. Stibbling (Part-time)</td>
<td>Instructor</td>
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<td>Political Science</td>
<td>James N. Lamarre</td>
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<td>Appointment</td>
<td>Roy Rodriguez (1/2 Time)</td>
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<td>Physics</td>
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<tr>
<td>Oscar H. McMahan</td>
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Total: $26,118 $19,576 $17,652 $24,194
Schellenger 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 $13,000.00 as Associate Professor in the Department of Metallurgical 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. (REC 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. (REC 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. (REC 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. (REC 482)

EXTENSION AND PUBLIC SERVICE

The 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. (REC 449)

CONTRACT RESEARCH AND SERVICES

HEW Grant OEG-O-71-2634(453) - Upward Bound - 7th Year

22. Accept the resignation of Nancy Wood, Teacher, effective July 20, 1972, and lapse to unencumbered salaries $697.62 budgeted for this position. (REC 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 $525.00 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. (REC 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. (REC 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 $12,000.00 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. (REC 450)

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

26. Appoint John A. Whitlett 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 $1,157.56 to come from budgeted salaries for this contract. (REC 456)
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 456)

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)

30. Appoint Jerry M. Roffer as Project Director effective June 1 through August 31, 1972, at his nine-months rate of $11,500.00 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)

31. Appoint James L. Wilson as Director effective July 1 through August 31, 1972, at his annual 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 1 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)

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)

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 JSC-2246-59 - 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 $12,500.00 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 19, 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 $9,900.00 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 FUNDS

Emma 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 ENTERPRISES

Intercollegiate 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 $12,000.00 with the necessary funds in the amount of $594.02 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 $3,442.00 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 $48,694.00. (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 $2,393.00. (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,

[Signature]

President

W-13
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. Hagard, 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:

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<tr>
<td>3035</td>
<td>Placement/Student Aid Director</td>
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<tr>
<td>3410</td>
<td>Student Activities Director</td>
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<tr>
<td>8665</td>
<td>Director of Student Publications</td>
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<tr>
<td>9605</td>
<td>Purchasing Agent</td>
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Additions:

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<tr>
<td>4002</td>
<td>Criminal Justice Program Coordinator</td>
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<tr>
<td>4341</td>
<td>Instrument Maker (no Roman numeral)</td>
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<td>8818</td>
<td>Photographer (no Roman numeral)</td>
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<tr>
<td>9095</td>
<td>Teaching Aide</td>
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<td>9135</td>
<td>Internal Auditor (no Roman numeral)</td>
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Changes:

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

AR-1
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.

   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. Speagle'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:

<table>
<thead>
<tr>
<th>Name</th>
<th>Inventory Number</th>
<th>Gross Sq.Ft.</th>
<th>Inventory Carrying Value</th>
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<tr>
<td>Administration</td>
<td>598</td>
<td>3,690</td>
<td>$52,500.00</td>
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<td>Personnel Office</td>
<td>611</td>
<td>1,480</td>
<td>10,500.00</td>
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<tr>
<td>Security Office Building</td>
<td>613</td>
<td>1,650</td>
<td>8,150.00</td>
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<tr>
<td>Public Information</td>
<td>612</td>
<td>1,360</td>
<td>9,250.00</td>
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<td>Psychology Office Building</td>
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<td>5,454</td>
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<td>Electrical Engineering -</td>
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<tr>
<td>Antenna Range Building</td>
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<td>369</td>
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<tr>
<td>Warehouse</td>
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<td>6,000</td>
<td>4,200.00</td>
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<tr>
<td>Warehouse</td>
<td>590</td>
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</table>
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-3016216-01 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.
Purchasing 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)

Office 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 ARTS

Office 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.
   Capital Outlay $165.
   Maintenance and Operation $150.
   To: 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)
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)

SCIENCE

Office 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)
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 ADMINISTRATION

Office 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)

ENGINEERING

Department 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
          Travel $100.14
          Computer Services $150.30
          Maintenance and Operation $1549.86
   To: 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 SCHOOL

Office 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

LIBRARY

Library - 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 ITEMS

Graduate 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 ENTERPRISES

Student 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)

AR-10
RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Board Meeting on October 20, 1972

SERVICE DEPARTMENTS

Library-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 FUNDS

Graduate 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 CONTRACTS

Graduate School of Social Work

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

AR-13
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 111, 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:

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Cost to Student</th>
<th>Royalty per Volume per Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statistical Analysis for Business</td>
<td>Lee H. Smith, Donald R. Williams</td>
<td>$11.95</td>
<td>$0.89</td>
</tr>
<tr>
<td>Study Guide for Statistical Analysis for Business</td>
<td>Lee H. Smith, Donald R. Williams</td>
<td>$2.95</td>
<td>$0.22</td>
</tr>
</tbody>
</table>

**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:

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

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:

<table>
<thead>
<tr>
<th>Firm</th>
<th>Bid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joe Funk Construction Company, Inc.</td>
<td>$42,500</td>
</tr>
<tr>
<td>Steve Robertson &amp; Associates, Inc.</td>
<td>36,460</td>
</tr>
<tr>
<td>Ed Dowd Construction Company, Inc.</td>
<td>34,300</td>
</tr>
</tbody>
</table>

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.
Physics

1. Transfer of Funds

   Amount of Transfer - $2,400.00

   From: DASS Administration
         Administrative and
         Professional Salaries
         $2,400.00

   To: DASS Administration
       Capital Outlay
       $2,400.00

   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

   To: DASS Organized Research
       Administrative and
       Professional Salaries
       $2,100.00

   To provide for the appointment of a
   Research Associate. (RBC D122)

Sincerely,

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

September 15, 1972

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.

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 4, 1972</td>
<td>Monday</td>
<td>Labor Day</td>
</tr>
<tr>
<td>November 23, 1972</td>
<td>Thursday</td>
<td>Thanksgiving Day</td>
</tr>
<tr>
<td>November 24, 1972</td>
<td>Friday</td>
<td>Thanksgiving Holiday</td>
</tr>
<tr>
<td>December 22, 1972</td>
<td>Friday</td>
<td>Christmas Holiday</td>
</tr>
<tr>
<td>December 25, 1972</td>
<td>Monday</td>
<td>Christmas Day</td>
</tr>
<tr>
<td>December 26, 1972</td>
<td>Tuesday</td>
<td>Christmas Holiday</td>
</tr>
<tr>
<td>December 27, 1972</td>
<td>Wednesday</td>
<td>Christmas Holiday</td>
</tr>
<tr>
<td>December 28, 1972</td>
<td>Thursday</td>
<td>Christmas Holiday</td>
</tr>
<tr>
<td>December 29, 1972</td>
<td>Friday</td>
<td>Christmas Holiday</td>
</tr>
<tr>
<td>January 1, 1973</td>
<td>Monday</td>
<td>New Year's Day</td>
</tr>
<tr>
<td>April 20, 1973</td>
<td>Friday</td>
<td>Good Friday</td>
</tr>
<tr>
<td>May 28, 1973</td>
<td>Monday</td>
<td>Memorial Day</td>
</tr>
<tr>
<td>July 4, 1973</td>
<td>Wednesday</td>
<td>Independence Day</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Purpose and Condition</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eli Lilly &amp; Company</td>
<td>Various Donors - Internal Medicine</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>F. O. Box 618</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indianapolis, Indiana</td>
<td></td>
<td></td>
</tr>
<tr>
<td>46206</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mr. William R. Eliassof</td>
<td>Dallas Area Hospital Television System</td>
<td>$45,000.00</td>
</tr>
<tr>
<td>For the Trustees of Hillcrest Foundation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>First National Bank in Dallas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. O. Box 6031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dallas, Texas 75222</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**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:

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

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 E. Mullins
   - July 1, 1972 - June 30, 1973
   - $1,000

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

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

Powell Laboratories, Inc.
Baudette, Minnesota 56623

9. Research Grant
Study of Ultraviolet Screening Effectiveness of DHA/Lawone
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
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 1B8 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. 207003, 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. (REC No. 397)

ANESTHESIOLOGY
4. Change the status and source of salary of P. Prithvi Rad (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. (REC No. 397)

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. (REC No. 397)

6. Appoint Vincent Henry Bradley (non-tenure), Assistant Professor, effective August 1, 1972 at an annual salary rate of $25,000 payable 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. (REC No. 357)

7. Appoint Richard Earl Morris (non-tenure), Assistant Professor, effective August 1, 1972 at an annual salary rate of $25,000 payable from Parkland Memorial Hospital. (REC No. 397)

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

9. Appoint Vincent Henry Bradley (non-tenure), Assistant Professor, effective August 1, 1972 at an annual salary rate of $25,000 payable 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. (REC No. 397)

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 $21,000 payable from USPHS 5 F11 GM-16488. (REC No. 380)

11. Accept the resignation of Sen Orrin (non-tenure), Visiting Professor, effective June 30, 1972. Dr. Orrin is budgeted at an annual salary rate of $24,000 payable from USPHS 5 F11 GM-16488. (REC No. 366)

12. Appoint Jurgen Welling (non-tenure), Visiting Assistant Professor, effective July 1, 1972 at an annual salary rate of $14,000 payable from American Cancer Society. (REC No. 379)

CELL BIOLOGY
13. Change the source of salary of Rupert Billing (tenure), Professor and Chairman, effective July 1, 1972 from an annual salary rate of $36,000 payable as follows: $20,000 from Cell Biology budget and $1,500 from Southwestern Medical Foundation, to $25,500 from Cell Biology budget, $10,000 from USPHS 1 RO1 AI-10678, and $3,000 from Southwestern Medical Foundation. (REC No. 363)
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-10576. (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 R01 AI-10678. (REG No. 365)

18. Transfer funds in the amount of $2,666.67 from Unalloated Faculty Salaries, account No. 9, to Cell Biology Teaching Salaries, Account No. 9, 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 $8,935.50 from Unalloated Faculty Salaries, account No. 9, to Cell Biology Teaching Salaries, Account No. 9, and appoint Frederick Grinnell (non-tenure), Assistant Professor, effective July 1, 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. 9, to Unalloated Faculty Salaries, account No. 9, to cover anticipated expenses for the remainder of the fiscal year. (RBC No. 375)

INTERNAL MEDICINE

21. 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)

22. 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 as follows: $1,500 from Various Donors and $14,500 from Parkland Memorial Hospital. (RBC No. 425)

23. Void RBC No. 280, dated March 28, 1972, for the appointment of James H. Gilliam (non-tenure), Assistant Professor, and transfer funds in the amount of $3,333.33 from Internal Medicine Teaching Salaries, to Unalloated Faculty Salaries, account No. 9, to cover anticipated expenses for the remainder of the fiscal year. (RBC No. 402)

24. 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)

25. Change the status of Arnold H. Israelit (non-tenure), Assistant Professor, effective July 1, 1972, from Assistant Professor of Internal Medicine, at an annual salary rate of $12,124.50 payable from Internal Medicine budget and $12,124.50 paid direct by Veterans Administration Hospital, to Unpaid Faculty Status. (RBC No. 395)

26. Reappoint Ronald C. Pratt (non-tenure), Clinical Assistant Professor, approximately 75%, for the period July 1, 1972 through August 31, 1972, at an annual salary of $15,000 payable from Parkland Memorial Hospital Services. (RBC No. 421)
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. 402)

29. Transfer funds in the amount of $400.00 from Unallocated Faculty Salaries, account No. , to Internal Medicine Teaching Assistants, account No. , and increase the annual stipend level of Henrik Westergaard, Fellow, effective July 1, 1972, from $8,500 from USPHS I-F05-0001808, to 2nd year Fellow at $10,900 payable as follows: $8,500 from USPHS I-F05-0001808, 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. , to Internal Medicine Maintenance & Operation, account No. , to cover anticipated expenses for the remainder of the fiscal year. (RBC No. 384)

31. Appoint Kathryn Voelker Holmes (non-tenure), Assistant Professor, effective August 1, 1972 at an annual salary rate of $17,000 payable from USPHS E 018 P00026. (RBC No. 416)

32. Change the source of salary of Hanna K. Nowacka (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. (REC No. 362)

33. Void RBC No. 360 dated June 25, 1972, for the resignation of Myra V. Chrest (non-tenure), Assistant Professor of Nursing Education. (RBC No. 373)

34. Transfer funds in the amount of $2,666.66 from Unallocated Faculty Salaries, account No. , to Neurology Teaching Salaries, account No. , and change the status and date of Leave of Absence without pay of Michael G. Groeneke, Jr. (non-tenure), as follows: from Instructor on Leave of Absence without pay, through June 18, 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)

35. Transfer funds in the amount of $4,666.66 from Unallocated Faculty Salaries, account No. , to Obstetrics & Gynecology Teaching Salaries, account No. , 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. 416)

36. Transfer funds in the amount of $3,333.33 from Unallocated Faculty Salaries, account No. , to Obstetrics & Gynecology Teaching Salaries, account No. , 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. , to Obstetrics & Gynecology Teaching Salaries, account No. , 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)
39. Appoint Barry E. Schwarz (non-tenure), Assistant, 10%, effective July 1, 1972, at an annual salary of $3,600 payable from USPHS 05-H-000-073,060. (REC 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. (REC No. 378)

41. Appoint Lionel Reiman (non-tenure), Assistant, 25%, effective July 1, 1972, at an annual salary of $3,600 payable from Departmental Trust Funds. (REC 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. , 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. (REC No. 408)

43. Transfer funds in the amount of $1,333.32 from Unallocated Faculty Salaries, account No. , to Ophthalmology Teaching Salaries, account No. , and appoint John R. Welch (non-tenure), Instructor, effective July 1, 1972, at an annual salary rate of $20,000 payable from Ophthalmology budget. (REC 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. (REC No. 419)

PATHOLOGY

45. Transfer funds in the amount of $156.12 from Unallocated Faculty Salaries, account No. , to Pathology Teaching Salaries, account No. , 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. (REC No. 422)

PEDIATRICS

46. Accept the resignation of Paschal J. LaRuffa (non-tenure), Assistant Professor of Pediatrics & Instructor in Internal Medicine, effective July 16, 1972. Dr. LaRuffa is budgeted at an annual salary rate of $21,700 payable from USPHS 05-H-000-073-06. (REC No. 388)

47. Appoint William L. Hayden (non-tenure), Assistant, approximately 50%, effective July 1, 1972, at an annual salary of $3,200 payable from Pediatrics budget. (REC No. 385)

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. (REC No. 385)

49. Increase the annual stipend level of George Alfred Monone, Postdoctoral Fellow, effective for the period July 1, 1972 through August 11, 1972, at an annual salary rate of $6,000 payable from USPHS 5 RO1 10-05151. (REC No. 406)

50. Appoint Eduard F. 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 RO1 10-05151. (REC No. 406)

51. Reappoint Stuart A. Bergman, Jr. (non-tenure), Instructor, effective July 3, 1972, at an annual salary rate of $9,280 payable from USPHS 2 RO1 HN-06856, and grant Leave of Absence without pay effective August 18, 1972. (REC 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. Forgetson (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 TO1 MH-10856 and $7,500 from USPHS 5 TO2 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 $2,000 from Radiology budget, $2,000 from Parkland Memorial Hospital, and $6,000 from USPHS 5 TO1 CA-05600. (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)

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 TO1 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 TO1 NS-05600. (RBC No. 407)

ANIMAL HOSPITAL
60. Appoint Steven P. Pake (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: $28,000 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 $3,100 from Salaries to Maintenance & Operation in Physical Plant - Utilities. (RBC No. 431)

SPECIAL PROJECTS
62. Transfer funds in the amount of $24,750 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)
Transfer funds in the amount of $210.10 from Unallocated Faculty Salaries, account No. 222, to School of Allied Health Professions - Nutrition and Dietetics, and $135.49 to account No. 223, 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: $9,894 from USPHS 1-001-AR-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. 289)

Transfer funds in the amount of $662.62 from Unallocated Faculty Salaries, account No. 222, to School of Allied Health Professions - Allied Health Teacher Education, account No. 226, 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)

Appoint Maurine B. 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)

Transfer funds in the amount of $1,882.17 from Unallocated Faculty Salaries, account No. 222, to School of Allied Health Professions - Health Care Sciences, account No. 224, 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. 326)

Transfer funds in the amount of $2,900 from Unallocated Maintenance & Operation, account No. 200, to School of Allied Health Professions - Health Care Sciences. (RBC No. 409)

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 - $3,914; 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)
Approval is requested for the following:

**DEPARTMENT OF THE ARMY**

   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 $26,940.93
   Dallas County

2. Research Contract DADA 17-72-02145
   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 ROI AMI0073-08
   Neurochemical 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 ROI AMO3108-14
   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 ROI AM00188-01
   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-F-30233/6-02
   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, 1973
$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 5 R01 HL14775-02
Dr. George E. Weiss, PHD
September 1, 1972 - August 31, 1973
$21,822.00
Dallas County

11. Training Grant 2 T13 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 GM02488-05
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 RO4 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 GM39791-01
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 GM05482-15
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

S-12
National Institute of General Medical Sciences

17. Research Grant 1 ROI 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 TO1 CA05136-11
Graduate Training in Radiation Biology and Radiological Physics
Dr. Frederick J. Ronte, M.D.
July 1, 1972 - June 30, 1973
$47,885.00
Dallas County

19. Research Grant 5 ROI CA12089-02
Immunology of Chemically Modified Cancer Cell
Dr. Morton D. Frager, PHD
June 1, 1972 - May 31, 1973
$16,711.00
Dallas County

20. Research Grant 1 ROI CA13372-01
Preclinical Study of Radiobiology of Negative Pions
Dr. Ronald E. Carlson, PHD
September 1, 1972 - August 31, 1973
$36,761.00
Dallas County

21. Research Grant 7 ROI 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 ROI CA13296-01
Selective Activation of Pyrimidine Antimetabolism
Dr. Lon E. Rogers, M.D.
August 1, 1972 - July 31, 1973
$31,500.00
Dallas County

National Library of Medicine

23. Research Grant 1 GM4 IM 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 GM4 IM 01604-01
Regional Medical Library Support (Training Activities)
Dr. Donald D. Hendricks, PHD
June 15, 1972 - May 31, 1973
$25,920.00
Dallas County
National Institute of Allergy and Infectious Diseases

25. Training Grant 2 TO1 AI0337-06
Pediatric Infectious Disease and Immunology
Dr. Heinz F. Eichenwald, M.D.
July 1, 1972 - June 30, 1973
$85,184.00
Dallas County

26. Research Grant 5 R01 AI02316-15
Experimental Babes Infection in Chiroptera
Dr. S. Edward Sulkin, PhD
September 1, 1972 - August 31, 1973
$16,247.00
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 TO1 MH06777-15
Clinical Psychology
Dr. Maurice Komar, PhD
July 1, 1972 - June 30, 1973
$19,100.00
Dallas County

29. Training Grant 5 TO2 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 FE 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 B03 FE00174-07
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
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 RO1 AM46777-03
   Transport Properties of Isolated Perfused Nephrons
   Dr. Juha P. Kokko, Ph.D.
   September 1, 1972 - August 31, 1973
   $27,240.00
   Dallas County

Fogarty International Center

35. Fellowship Award 1 FO5 TW01999-01
   International Research Fellowship Award
   Dr. John C. Porter, Ph.D.
   September 15, 1972 - June 13, 1973
   $10,363.00
   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 R01 NS08618-03
    Effects of Drugs on Thermoregulatory Mechanisms
    Dr. Wesley G. Clark, Ph.D.
    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. Rapotou, M.D.
    July 1, 1972 - June 30, 1973
    $40,744.00
    Dallas County

National Institutes of Health

39. Contract NIH-73-C-10-0C
    Delivery of Purified Cholera Toxin
    Dr. Richard Finkelstein, Ph.D.
    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
   $11,837.00
   Dallas County

41. College Work-Study Program
   Dr. John W. Schermerhorn, Ph.D.
   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. Bowden, M.D.
   September 1, 1972 - February 28, 1975
   $63,100.00
   Dallas County

44. Research Grant GB-30775XL
   Studies on Inapparent and Latent Viral Infections;
   Studies on Temperature-Induced Alterations in Animal Viruses
   Dr. S. Edward Sulkin, Ph.D.
   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-108
   Title to equipment listed in Attachment No. 1 is transferred to
   Southwestern Medical School at Dallas
   Dr. F. O'S. Montgomery, M.D.
   $8,134.81 - 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.

THE UNIVERSITY OF TEXAS

AT SAN ANTONIO

PROPOSED

GRADUATE CATALOG

1973 - 1974

Subject to approval by:

Board of Regents

The University of Texas System

SA-2
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.
Forward

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 program 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

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<td>Environmental Management</td>
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**Appendix—Residence Regulations**

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**Directory for Correspondence**

**Map of Temporary Location of UTSA**
THE UNIVERSITY OF TEXAS SYSTEM

BOARD OF REGENTS

OFFICERS

John Pease, 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 Pease . . . . . . . . . . . . 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

SYSTEM OFFICERS

Charles A. LeMaistre, 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

Arleigh B. Templeton..........................President
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
E. B. Hodo..............................Dean, College of Business
Jacinto Quirarte..............Dean, College of Fine and Applied Arts
Richard E. W. Adams............Dean, College of Humanities and
Social Sciences
......................Dean, College of Multidisciplinary
Studies
......................Dean, College of Sciences and
Mathematics
Richard L. Lewis..............Director of Admissions and Registrar
Michael P. Kelly..................Director of Libraries
UNIVERSITY CALENDAR

SUMMER SESSION 1973

FIRST 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.

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UNIVERSITY CALENDAR

Fall Semester 1973

September 4-5  Tuesday-Wednesday. Registration.
September 8  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 1974

First 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 6  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

General

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, (4) submit scores from the Graduate Record Examination (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 dean. 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 6818-5 for the GRE and 66919 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 academically 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

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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.

<table>
<thead>
<tr>
<th>Term</th>
<th>Earliest Date to Apply</th>
<th>Last Date to Apply</th>
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<tbody>
<tr>
<td>Summer Session I</td>
<td>January 15</td>
<td>May 15</td>
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<tr>
<td>Summer Session II</td>
<td>January 15</td>
<td>June 30</td>
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<tr>
<td>Fall Semester</td>
<td>February 15</td>
<td>August 15</td>
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<tr>
<td>Spring Semester</td>
<td>August 1</td>
<td>December 31</td>
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</table>

**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 5 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-service men. 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 person 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
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**

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

**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 work 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 satisfying 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 so 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 those 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.

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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.

<table>
<thead>
<tr>
<th>Programs</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>MFA</td>
</tr>
<tr>
<td>Bicultural-Bilingual Media Interpreting</td>
<td>MA, MS</td>
</tr>
<tr>
<td>Biology</td>
<td>MS</td>
</tr>
<tr>
<td>Chemistry</td>
<td>MS</td>
</tr>
<tr>
<td>English Language Literatures</td>
<td>MA</td>
</tr>
<tr>
<td>Geography</td>
<td>MA</td>
</tr>
<tr>
<td>History</td>
<td>MA</td>
</tr>
<tr>
<td>Interamerican Management</td>
<td>MBA</td>
</tr>
</tbody>
</table>
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* (ATGBS) and submit results to the Director of Admissions well in advance of the desired date of admission. The score on the ATGBS 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 ATGBS, or information on the test, may be obtained from Educational Testing Service, Princeton, New Jersey 08540.
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.
- MKRT 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.

555 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.
SOCIAL CONTROL OF BUSINESS.
(3-0) 3 hours credit. Prerequisite: ECON 550 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.

SPECIAL PROBLEMS.
(610, 620, 630) 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.

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.

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.

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

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.
(3-9) 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.

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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

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.
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 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.

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, Jtepan, Classic Maya, Zapotec, Classic Veracruz, Teotihuacan, Toltec-Mayan, 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.

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, Cusco (Peru), and La Paz (Upper Peru).

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.
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 poly-
chromed 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 CHANCE.

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.

SA-81
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.

SA-82
Core Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EGNL 531</td>
<td>FOUNDATIONS OF HISPANIC CULTURES.</td>
</tr>
<tr>
<td>SPAN 531</td>
<td>CULTURAL AND STRUCTURAL DIMENSIONS OF THE SPANISH LANGUAGE.</td>
</tr>
<tr>
<td>SPAN 532</td>
<td>THE HISPANIC LITERARY HERITAGES.</td>
</tr>
</tbody>
</table>

Concentrations:

**Hispanic Culture**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA 571</td>
<td>THE HISPANIC FINE ARTS.</td>
</tr>
<tr>
<td>SPAN 573</td>
<td>THE HISTORY OF IDEAS IN SPAIN AND LATIN AMERICA.</td>
</tr>
<tr>
<td>SPAN 576</td>
<td>SEMINAR IN SPANISH CULTURE AND CIVILIZATION.</td>
</tr>
</tbody>
</table>

**Hispanic Literatures**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>SPAN 560</td>
<td>MASTERPIECES OF HISPANIC LITERATURES.</td>
</tr>
<tr>
<td>SPAN 561</td>
<td>CONTEMPORARY HISPANIC LITERATURE.</td>
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<tr>
<td>SPAN 565</td>
<td>SEMINAR IN HISPANIC LITERATURES.</td>
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</tbody>
</table>

**Spanish Language**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>SPAN 584</td>
<td>HISTORY OF THE SPANISH LANGUAGE.</td>
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<tr>
<td>SPAN 586</td>
<td>STYLESTICS AND SYNTAX.</td>
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<tr>
<td>SPAN 586</td>
<td>SEMINAR IN SPANISH LINGUISTICS.</td>
</tr>
</tbody>
</table>

**Option 1:**

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 civilizations.

535 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.
E66 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 interrelationships 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 581.
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) 5 hours credit.
Critical analysis of works by Melville, Hawthorne, Howells, James, Twain, Poe, and others.

533 STUDIES IN THE FICTION OF THE GREATER SOUTHWEST.
(3-0) 3 hours credit.
Consideration of the works of Lubie, LaVerne, "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, Woolly, Porter, Faulkner, Singer, Updike and others will be considered.

610, 620, 638 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.

SA-87
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.
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.

501 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 patternning, demographic developments, cultural influence and modification of the landscape will be among the topics covered.

565 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.
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.

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, Rostow's theory of agricultural growth, and other theoretical matters will be considered.

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.

535 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.
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.

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.

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.

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.

(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 dislocations and readjustments in the early colonial period; the viceregalcy.

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 Porfirianos. 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, Obregón, Zapata, Villis; 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. Independence.

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 patterns 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

PS101 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.

PS103 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.

PS105 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.

PS102 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)

655 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, deindividualization 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.

656 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.

657 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.

658 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.

659 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.

SA-98
COURSE DESCRIPTIONS

SPANISH

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.

552 THE HISPANIC LITERARY HERITAGE.
(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 LITERATURE.
(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 566 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 MUNDOISMO.
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.

573 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: Hispanic-
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
Mudejar, 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 move-
ment and as an abridgment 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.
(1-0) 5 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.
586E SEMINAR IN SPANISH LINGUISTICS: WRITTEN SPANISH GRAMMAR.

610, 620, 650 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, 651 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, 652 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.
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 M.A. degree is terminal and the student who is pursuing the M.A. 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. INFERENTIAL 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 30 semester hours of course work is required):

EDUC 530. RESEARCH METHODS IN EDUCATION.
EDUC 531. INFERENTIAL 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.
- EDUC 581. SPECIALIZED INSTRUCTION IN THE ELEMENTARY SCHOOL.
- EDUC 581. CONTEMPORARY EDUCATIONAL PHILOSOPHY.
- ECED 575. LANGUAGE DEVELOPMENT DURING EARLY CHILDHOOD.

B

- EDUC 565. LEARNING THEORIES RELATED TO HUMAN DEVELOPMENT.
- EDUC 585. EDUCATION, CULTURE DIFFERENCES AND ACCULTURATION.

6 hours. MASTER'S THESIS.

6-7 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.
- ECED 575. LANGUAGE DEVELOPMENT DURING EARLY CHILDHOOD.

B

- 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 elective, 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 550. RESEARCH METHODS IN EDUCATION.
EDUC 581. CONTEMPORARY EDUCATIONAL PHILOSOPHY.
MONT 530. FOUNDATIONS OF MANAGEMENT.
EDUG 561. SCHOOL FINANCE AND TAXATION.
EDUG 571. SCHOOL AND COMMUNITY RELATIONS.
EDUG 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 Adviser and Dean.

Option II (a total of 30 semester hours of course work is required):

EDUC 550. RESEARCH METHODS IN EDUCATION.
EDUC 581. CONTEMPORARY EDUCATIONAL PHILOSOPHY.
MONT 530. FOUNDATIONS OF MANAGEMENT.
EDUG 561. SCHOOL FINANCE AND TAXATION.
EDUG 571. SCHOOL AND COMMUNITY RELATIONS.
EDUG 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 Adviser and Dean.

Nine (9) hours of electives, as approved by the Graduate Adviser 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 592. 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 592. 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 multicultural 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.

SA-114
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. BICALTRALISM: U.S.-MEXICO.
SPAN 580. SEMINAR IN MEXICAN-AMERICAN LITERATURE.
HIST 580. 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 30 semester hours, non-thesis program):

BCBL 530. CULTURAL DIMENSIONS OF THE SPANISH AND ENGLISH LANGUAGES.
BCBL 531. FOUNDATIONS OF HISPANIC CULTURES.
BCBL 532. BICALTRALISM: U.S.-MEXICO.
SPAN 580. SEMINAR IN MEXICAN-AMERICAN LITERATURE.
HIST 580. 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 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.
BCBL 561. ADVANCED ENGLISH AND SPANISH CONVERSATION AND RHETORIC.
BCBL 573. BICULTURAL FOUNDATIONS OF LEARNING.
BCBL 691 (6 hours). MASTERS THESIS.

Nine (9) semester hours of supporting course work, as approved by the Graduate Advisor and Dean.

Option II (a total of 30 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 572. 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 combine 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.
BIOI 535A. MEDICAL LIFE SCIENCES I.
BIOI 535B. MEDICAL LIFE SCIENCES II.
BMI 561A. MEDICAL TERMINOLOGY I.
BMI 561B. MEDICAL TERMINOLOGY II.
BMI 571. HEALTH CARE DELIVERY SYSTEMS.
ANTH 586. MEDICAL ANTHROPOLOGY.
BMI 581. GATHERING, REPORTING, AND MANAGEMENT OF MEDICAL DATA.
BMI 635. SEMINAR IN BILINGUAL MEDICAL INTERPRETING.
ECOL 660A, 2, 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 36 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 652. MANPOWER POLICY.
- ENVN 633. MANPOWER TRAINING.
- ENVN 691 (6 hours). MASTERS 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 56 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 652. MANPOWER POLICY.
- ENVN 655. 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 to seven hours of course work in Environmental Management or the second field, or from a subject area, as approved by the Graduate Advisor and Dean.

Option I (a total of 20 semester hours including thesis is required):

ENVS 586. URBA N ECOLOGIES.
ENVS 580. INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES.
ENVS 582. HUMAN AND NATURAL RESOURCES.
ENVS 584. CONCEPTS IN ENVIRONMENTAL MANAGEMENT.
ENVS 586. BIOLOGICAL DIMENSIONS OF URBAN SYSTEMS.
ENVS 587. ANIMAL HISTORIES.
ENVS 589. POLITICAL ORGANIZATIONS OF URBAN CENTERS.

Six to nine semester hours of course work in a supporting area, as approved by the Graduate Advisor and Dean.

Option II (a total of 40 semester hours of approved course work is required):

ENVS 575. URBAN ECOLOGIES.
ENVS 580. INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES.
ENVS 582. HUMAN AND NATURAL RESOURCES.
ENVS 584. CONCEPTS FOR ENVIRONMENTAL MANAGEMENT.
ENVS 586. BIOLOGICAL DIMENSIONS OF URBAN SYSTEMS.
ENVS 588. HUMAN RESOURCES.
ENVS 855. INTERNSHIP.
ENVS 589. POLITICAL ORGANIZATIONS 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 (ENRN 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):

ENVM 560. INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES.
ENVM 561. APPLIED ECOLOGY.
ENVM 563. ECONOMICS OF NATURAL RESOURCES.
ENVM 571. WATER MANAGEMENT.
ENVM 575. LAND MANAGEMENT.
ENVM 591. BUSINESS DIMENSIONS OF ENVIRONMENTAL MANAGEMENT.
ENVM 691 (6 hours). MASTER'S THESIS.

Six (6) hours of course work in a related field, as approved by the Graduate Advisor and Dean.

SA-124
Option II (a total of 36 semester hours, non-thesis program):

ENVN 560. INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES.

ENVN 561. APPLIED ECOLOGY.

ENVN 565. 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

530 CULTURAL DIMENSIONS OF THE SPANISH AND ENGLISH LANGUAGES.
(3-0) 3 hours credit.
Philoalogical, 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.
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.

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.

TECHNIQUES OF TEACHING TO DEVELOP BILINGUALISM.  
(3-0) 4 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.

616, 629, 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.

MATERIAL'S THESIS.  
(3-0) 5 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 BCL 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.

SA-128
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 oppor-
tunity 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

(CWAR)

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 materials 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 flexi-
bility 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

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.

565 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 536. 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.

SA-132
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.

EDUC 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.

EDUC 532
EVOLUTION OF EDUCATIONAL THOUGHT.
(3-0) 3 hours credit.
An analysis of the educational writings and teachings of Plato, Aristotle, the Scholastics, Comenius, Dewey, Froebel, Herbart, Kant, Locke, Pestalozzi, Rousseau, and Spencer and the impact on contemporary educational theory and practice.

EDUC 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.

EDUC 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.

583 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.

545 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.
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.
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 wildlife. 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.
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.

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.

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.

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.

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.

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 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.
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.

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.

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.

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

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, 650 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.
68:

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) 3 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 inves-
tigated.

810, 820, 830 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.
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. Wherever 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.
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 581. 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 580. 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 eco-
systems. Man initiated disruptions of energy require-
ments 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

(ENT4)

522 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 261, 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.

535 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 990, or the equivalent.
534 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 561, or the equivalent.

535 APPLICATIONS OF MATHEMATICS.
(3-0) 3 hours credit. Prerequisite: 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 functions; characteristics of such, 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, CUSOL, 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.
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.

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.

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.

THEORY OF FUNCTIONS OF A REAL VARIABLE.
(3-0) 3 hours credit. Prerequisite: MATH 531, or the equivalent.

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.
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 theory, asymptotic expansions.

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.

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.

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.

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. Required permission of the instructor.

631 ADVANCED PROBABILITY

(3-0) 3 hours credit. Prerequisite: MATH 536, or the equivalent.
Fundamental concepts, weak and strong laws of large numbers, convergence of distributions, the central limit theorem, infinitely divisible distributions and stable laws.

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

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.
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 fees. 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 twelve-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 twelve-month period immediately preceding the date of registration shall be classified as a nonresident student. However, if he has become the legal residence of a child of Texas or has been adopted or legal residence of Texas while he is attending an educational institution in Texas, or within a twelve-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 twenty 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 living or at his last residence;

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 institu-
tion of higher education (defined as any public junior college, public senior
college or university, medical or dental unit or other agency of higher educa-
tion) 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 re-
sided 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 classi-
fication 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 sup-
port 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 organiza-
tion and has been graduated from the orphan's home shall be considered a resi-
dent 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 emanci-
pated 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 indepen-
dent 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 classi-
fied as a resident, if he otherwise satisfies the statutory requirements appli-
cable 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 carries a Texas resident shall be governed by the provisions of the tuition statute and the 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 or, after August 15, 1971, the minor shall be classified as a nonresident at all subsequent registration periods. Under provisions of Section 54.053, 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 (c) An individual twenty-one (21) years of age or over who resides out of the state or who has lived for more than one-half year 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-
registering 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 home, presence with substantial loan-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.

Status: 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.

Status: Section 54.058 (a) Military personnel are classified as provided
by this section in the following manner:

(b) An officer, enlisted man or woman, selective or drafted 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 enrolling 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.
H. 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 such registration a statement from his commanding officer or personnel officer certifying that he is then assigned to duty in Texas and that such 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 an 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 (j) 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 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
A person employed at least half-time on a regular 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 such 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.

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 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 and regulations established by the employer institution. This exception shall continue for students employed for 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.

VII. Competitive Scholarships.

Section 54.081 (p) A nonresident student holding a competitive scholarship of at least $100 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.

Section 54.607 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 privileges 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 54.601 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.

X. Financial Aid Applicable to Junior Colleges

Section 54.004: The nonresident tuition fee prescribed in this Act shall 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.

XI. 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.
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
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

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
$30,000.00

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.
CONTRACTS AND GRANTS (FEDERAL): Approval is requested for the following:

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 CA1378-04
   Mechanism of Hormonal 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. Mishima
   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
National Institute of Child Health and Human Development

4. Development Award - Research Career Program - Grant 7 KO4 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 linked 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 RO1 HD06523-02).
   Expenditure estimates by county:
   Bexar County, Texas: $25,000.00

5. Research Grant 5 RO1 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 linked 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 KO4 HD42398-04).
   Expenditure estimates by county:
   Bexar County, Texas $12,149.00
   Harris County, Texas 6,074.50
   Dallas County, Texas 6,074.50
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
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 popula-
   tion. 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. Pyatte (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)

Microbiology

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 H. 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 H. Taylor (tenure), Professor at an annual salary rate of $28,500 effective at the close of business August 31, 1972. (RBC-255)

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 NSHD - Pediatrics ($2,000). (RBC-279)

**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-561076-01. (RBC-275)

21. Reappoint Dr. Harry A. Wilmar, 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 BOND 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 DH
t Grant 5 TO1 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 DH
t Grant 5 G04 LM01262-02. (RBC-270)

TRANSFER OF FUNDS:

1. Amount of Transfer: $6,962.00
   To: Office of the Purchasing Agent, $250.00
       Classified Salaries
       Office of the Purchasing Agent, 2,100.00
       M & O
       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 $250.00
       Accounting, Classified Salaries
       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. (KBC-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 580.55
       Physical Medicine and Rehabilitation, 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, $ 256.00
       Classified Salaries
       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 1,600.00
       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 4,660.89
   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:
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LOCATION MAP OF THE UNIVERSITY OF TEXAS MEDICAL SCHOOL AT SAN ANTONIO
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 Festina, 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. Brunemann, 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. Robiasheaux, B.B.A., Director of General Services

BEXAR COUNTY HOSPITAL DISTRICT

Board of Managers

Harvey Komar, M.D., Chairman

William Sinkin

M. L. Preacher, M.D.

Ernest Cortes

Hospital Administration

Sam Madrid, Jr.

Cleo Bohls

William Hinsch

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 CHAIRMAN

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 protheses, 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
Classes begin
Labor Day holiday
Thanksgiving holidays
Last day of final examinations
Graduate Day (No Public Exercises)

SPRING SEMESTER 1973
Registration
Classes begin
Good Friday holiday
San Jacinto Day holiday
Last day of final examinations
Commencement

SUMMER SESSION 1973
Registration
Classes begin
Independence Day holiday
Last day of final examinations
Graduation Day (No Public Exercises)
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...
Antonio may apply for permission to take a course(s)
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

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 in 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. Fannill 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:

<table>
<thead>
<tr>
<th>Number of hours taken</th>
<th>Residents of Texas</th>
<th>U.S. citizens</th>
<th>Foreign students</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>$60.00</td>
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<td>56.00</td>
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<td>200.00</td>
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<tr>
<td>12</td>
<td>50.00</td>
<td>480.00</td>
<td>200.00</td>
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<td>440.00</td>
<td>200.00</td>
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<td>200.00</td>
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<tr>
<td>9</td>
<td>50.00</td>
<td>360.00</td>
<td>200.00</td>
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<td>8</td>
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<td>4</td>
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<td>200.00</td>
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<td>3</td>
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<td>120.00</td>
<td>200.00</td>
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<tr>
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<td>50.00</td>
<td>80.00</td>
<td>200.00</td>
</tr>
<tr>
<td>1</td>
<td>50.00</td>
<td>40.00</td>
<td>200.00</td>
</tr>
</tbody>
</table>

*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
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.
Military Personnel and Veterans

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.
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 fees prescribed in this Act does not apply to a nonresident student who is a
residents 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. Children 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, 78731.

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:

<table>
<thead>
<tr>
<th>Refunds</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>During first week of classwork</td>
<td>70%</td>
</tr>
<tr>
<td>During second week of classwork</td>
<td>60%</td>
</tr>
<tr>
<td>During third week of classwork</td>
<td>40%</td>
</tr>
<tr>
<td>During fourth week of classwork</td>
<td>20%</td>
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<tr>
<td>and thereafter</td>
<td>00%</td>
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</tbody>
</table>

Summer Session

Refunds will be made as follows:

<table>
<thead>
<tr>
<th>Refunds</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>First three class days</td>
<td>70%</td>
</tr>
<tr>
<td>Fourth, fifth or sixth class day</td>
<td>60%</td>
</tr>
<tr>
<td>Thereafter</td>
<td>00%</td>
</tr>
</tbody>
</table>

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 Services.
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-Harwood College Student Loan Program
The Federally Insured Student Loan Program
The Minnie Stevens Piper Foundation Student Loan Program
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.

<table>
<thead>
<tr>
<th>Maximum Hours Per Week Permitted To Work</th>
<th>Graduate Hours Registered for</th>
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</thead>
<tbody>
<tr>
<td>0 - 15 - 100.00%</td>
<td></td>
</tr>
<tr>
<td>3 - 14 - 91.66%</td>
<td></td>
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<tr>
<td>6 - 13 - 83.33%</td>
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<tr>
<td>10 - 12 - 75.00%</td>
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<tr>
<td>13 - 11 - 66.66%</td>
<td></td>
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<tr>
<td>16 - 10 - 58.33%</td>
<td></td>
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<tr>
<td>20 - 9 - 50.00%</td>
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<tr>
<td>23 - 8 - 41.66%</td>
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<tr>
<td>26 - 7 - 33.33%</td>
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<tr>
<td>30 - 6 - 25.00%</td>
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<tr>
<td>33 - 5 - 16.66%</td>
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<tr>
<td>36 - 4 - 8.33%</td>
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<tr>
<td>40* - 3 - 0.00%</td>
<td></td>
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<tr>
<td>40* - 2 - 0.00%</td>
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<tr>
<td>40* - 1 - 0.00%</td>
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</tbody>
</table>

*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 student debts.
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 N.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 support-
ing 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
OBJECTIVES OF GRADUATE WORK

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.
FACULTY

Department Chairman - Professor Edward G. Rennels

Professor Alexis L. Burton

Tissue culture cinematography and experimental cytology.

Professor John J. Ghidoni**

Cardiovascular pathology.

Professor William N. 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. Kramer

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.
The course offerings in the Graduate Programs are contingent upon adequate student enrollment.

**Microscopic Anatomy**

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.

**Gross Anatomy**

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.

**Medical Embryology**

A lecture series on human development covering normal and abnormal aspects.

**Neuroscience**

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.

**Cell Biology**

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.

Prerequisites: Introductory Biochemistry course or advanced standing in cellular and molecular biology.

I. L. Cameron and W. W. Morgan

**Electron Microscopy**

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 prospected 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. Bung, 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

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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

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 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. Weissman
Cellular differentiation in acanthamoeba; during starvation a cellulose-containing cyst is formed. Studies in progress include: changes of structure and function of DNA polymerase during encystment and its relation to the synthesis of new DNA; the control of cellulose synthesizing enzymes; and the role of adenylic 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

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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
Physical Biochemistry  1 semester hr.
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
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. Freming

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. Waggener
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 orthopedics.

Assistant Professor Terry M. Wikiten
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


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; theretical 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.
Quantum Mechanics 3 semester hrs.  
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 sulphydryl 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.

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, Ribi cell 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. Merengo-Rowe**

Hematology.

Associate Professor Daniel L. Rosenstein**

Immunohematology.

Associate Professor Daniel E. Thor*

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 Malvin 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
Lectures, laboratory 3 semester hrs.
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
Experiments 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.


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

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.
OBJECTIVES OF GRADUATE WORK

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

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.
FACULTY ROSTER

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.

ADKISON, Erle 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.

ALVON, 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., 1965; 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.

BLOOM, Arthur H.; Professor and Chairman, Department of Pharmacology. B.A., 1952; M.D., 1956, Johns Hopkins University.

BURATTIN, Alvin G.; Professor (Psychology) Department of Psychiatry. B.A., 1950; M.A., 1958; Ph.D., 1959, University of Chicago.

BURTON, Alexa L.; Professor, Department of Anatomy. B.A. 1940, Institute Florimont (Switzerland); B.S. 1943, University of Geneva (Switzerland); M.D. 1946, University of Strasbourg (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).

CANDLER, 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.

CEITAVO, Gerard J.; Associate Professor, Department of Bioengineering. B.Sc., 1959; Ph.D., 1963, University of New South Wales (Australia).

CHATOFF, 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.

COLTON, 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 E., Jr.; Associate Professor, Department of Surgery. A.A., 1952; M.D. 1957, University of the Philippines; M.S., 1963, University of Minnesota.

ST-108
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.

FORDLAND, Marvin; Professor, Department of Physiology and Medicine. A.B., 1954, College University; M.D., 1958, Columbia University.

FREUNDING, Benjamin D.; Professor and Chairman, Department of Laboratory Animal Medicine. B.V.M., 1946, Colorado State University; M.P.S., 1952, University of California (Berkeley).

*GATES, George A.; Associate Professor, Department of Surgery, M.D., 1959, University of Michigan.

*GERR, Warren D.; Instructor, Department of Bioengineering; Research Associate, Department of Microbiology. B.S., 1964, Valparaiso University; M.S., 1969, University of Maryland.

GHIDOUR, John J.; Professor, Departments of Pathology and Anatomy. B.S., 1953, Fordham University; M.D., 1957, State University of New York, Downstate.

*GIPPER, Martin B.; Professor, Department of Psychiatry. A.B., 1941, University of Michigan; M.D., 1945, University of Pittsburgh.

*GOTTLIEB, 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.

GUARDINO, 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, Casper 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., 1972, University of Alberta.

HOUeTON, 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.

ST-109
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 L.; 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.

KNEHR, 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.

KRISSEN, 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.

LEE, 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, Jon H.; 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., 1955, Oklahoma University; M.S., 1959, Texas A&M University.

MARRING-GoWE, Alain J.; Associate Professor, Departments of Pathology and Microbiology. M.B., 1951; B.S., 1961, University of London; L.R.C.P., 1961; M.B.Ch.B., 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).
McGEE, 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.

McGRATH, William L.; Associate Professor, Department of Physiology and Medicine. A.B., 1958; M.D.; 1964, Case Western Reserve University.

McKINZIE, 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.

MILYEN, Terry M.; Assistant Professor, Department of Physiology and Medicine. B.A., 1960, New York University; Ph.D., 1967, Albert Einstein College of Medicine.

MILYICH, 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., 1956; Ph.D., 1970, Indiana State University.

NISHIWAKI, Jonathan S.; Professor, Department of Biochemistry. A.B., 1956; Ph.D., 1959, University of California (Berkeley).

PERAZA, 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 F.; 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.

RAWLINS, Howard H.; Professor, Department of Surgery. A.B., 1952, Princeton University; M.D. 1956, Columbia University.

REYNOLDS, Allan W.; Assistant Professor, Department of Biochemistry. M.S., 1948; Ph.D., 1967, University of Cincinnati.

REITER, Russell 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.

REYNOLD, 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, Wal; Associate Professor, Department of Surgery. B.A., 1950, Yale University; M.D., 1957, Cornell University; M.S., 1966, University of Minnesota.

RIONDEL, Frederic A.; Assistant Professor, Department of Pediatrics and Microbiology. B.S., 1957; Ph.D., 1966, University of Miami (Florida).

ROST, Harlan D.; Professor, Department of Surgery. A.B., 1950; M.D., 1953, Cornell University; Ph.D., 1951, University of Minnesota.

ROSENSTEIN, David L.; Associate Professor, Department 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.

SANDY, J. A.; Assistant Professor, Department of Microbiology. B.A., 1962, Hardin-Simmons University; M.S., 1965; Ph.D., 1968, Baylor University.

SCHERENBERG, 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.

SHEKOV, Alan; 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., 1945; M.S., 1945; Ph.D., 1969, University of Richmond.


STEPOV, David A.; Professor, Department of Pharmacology. B.S., 1951; M.S., 1964, The University of Texas at Austin; Ph.D., 1969, The University of Texas Medical Branch at Galveston.

STEPHEN, James M.; Assistant Professor (Psychology), Department of Psychiatry. A.B. 1961, Rockhurst College; A.M., 1962; Ph.D., 1966, St Louis University.

STUART, Jim L.; Professor, Department 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, Department of Microbiology and Pathology. M.D., 1963, Ph.D., 1968, Medical Center, University of Illinois.

TILMON, 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.

TRENCH, 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.
 Veterinarian, William S.; Assistant Professor, Department of Surgery. M.D., 1960, University of Virginia Medical School.

Vonder, Elizabeth; Visiting Professor, Department of Microbiology. M.S., 1923; Ph.D., 1928, University of Chicago.

Waggener, Robert C.; Associate Professor, Department of Radiology. B.A., 1954; M.A. 1956, 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., 1950, Northwestern State College of Louisiana; Ph.D., 1965, The University of Texas at Austin.

Wenisch, 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.

Weisser, Elliot; Professor, Department of Physiology and Medicine. A.B., 1953; M.D., 1957, Columbia University.

William, John K.; Assistant Professor, Department of Surgery. B.A., 1959, Stanford University; M.D. 1963, Baylor Medical School.

Wilkinson, Holbert S.; Assistant Professor, Department of Surgery. B.S., 1956, 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.

Westbom, William B.; Associate Professor, Department of Anatomy. B.S., 1956, The University of Texas (Austin and Galveston); Ph.D., 1963, Louisiana State University.

Winston, James W.; Instructor, Department of Bioengineering. B.S., 1967; B.A., 1969, Florida Atlantic University; M.S., 1971, Trinity University.

Wistninger, John F.; 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).

Zanich, Peter; Professor and Chairman, Department of Radiology. M.D., 1923, 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

ARNES, George Edgar; San Antonio, Texas; B.S., Southwest Texas State University, 1967.

BELL, John H.; Pennsylvania; B.S., Pennsylvania Military College, 1956.

BLAKE, 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 Nazarone 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.

HALBY, William Thomas, Jr.; San Antonio, Texas; B.A., St. Mary's University, 1964.

HENDerson, Arvis Burt; San Angelo, Texas; B.A., The University of Texas at Austin, 1966.

Hester, Richard Kelly; Irving, Texas; B.A., Austin College 1969.

JUTTER, 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.

KENNY, Jane Alice; Corpus Christi, Texas; B.S., Southwest Texas State University, 1968.

KNIEREM, Karen Marie; San Antonio, Texas; B.S., Texas Technological University, 1971.

LEVY, Louis B., San Antonio, Texas; B.S., Southern University, 1956.

MARINEZ, Yolani Nickel; San Antonio, Texas; B.S., St. Mary's University, 1970.

Mccoy, Timothy 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.

Mynick, Erwin George; San Antonio, Texas; B.S., Trinity University, 1968.

NEWMAN, Joseph Thomas; San Antonio, Texas; A.B., St. Michael's College, 1962.

QURESHI, Areef Ahmed; Karachi, Pakistan; B.S., University of Karachi, 1964.

ROSENFELD, Edward Jay; San Antonio, Texas; B.S., Trinity University, 1967.

TeN nella, Thomas Edward, Jr.; Dallas, Texas; B.A., University of Dallas, 1971.

Thomas, Virginia Lynn; Albany, Texas; B.S., Baylor University, 1965.
VILLAREAL, Mitchell Lynn: San Antonio, Texas; B.S., Trinity University, 1971.

WINSTEEL, James Williams; San Antonio, Texas; B.S., B.A., Florida Atlantic University, 1967, 1969.

WOOD, Katherine Olivia; San Antonio, Texas; B.A., Trinity University, 1972.

ZOLFO, Sandor; San Antonio, Texas; B.A., St. Mary's University, 1970.
DOCTOR OF PHILOSOPHY

JUNE 7, 1971
JAMES MURPHY
Pharmacology

JOSEPH SINGER
ANATOMY

JUNE 5, 1972
GERALD CARRIER
Pharmacology

HELENA JURSEVIC
Pharmacology

BARRIKA FRANKLIN
Pharmacology

AUGUST 26, 1972
ELIZABETH BOWIE
Anatomy
Respectfully submitted,

[Signature]

Truman G. Blocker, Jr., M.D.
Interim President
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 23, 1972:

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET:

TRANSFER OF FUNDS:

1. Amount of Transfer: $2,000.00  
To: Outpatient Clinic, Maintenance and Operation  
From: Outpatient Clinic, Administrative and Professional Salaries  
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 R01 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 electrocortiogram. 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

2. Training Grant 1 D08 PH1249-01
   **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,

John Victor Olson
Dean-Elect
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. Peyton, 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.  

S-1
9. Change the staff status of Robert F. 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. Milestein, 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 privileges, 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 Miguel 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:

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stipend</td>
<td>$3,600.00</td>
</tr>
<tr>
<td>(Subject to income tax regulations)</td>
<td></td>
</tr>
<tr>
<td>Maintenance and Operation</td>
<td>500.00</td>
</tr>
<tr>
<td>Travel</td>
<td>300.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$4,400.00</strong></td>
</tr>
</tbody>
</table>

2. Renew the McLaughlin Predoctoral Fellowship for Mr. Charles E. Stager, for the period September 1, 1972 through August 31, 1973, to include:

<table>
<thead>
<tr>
<th>Item</th>
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</thead>
<tbody>
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<tr>
<td>Travel</td>
<td>300.00</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$5,400.00</strong></td>
</tr>
</tbody>
</table>

3. Award a McLaughlin Predoctoral Fellowship to Mr. Charles Nolan Brown, Jr., for the period September 1, 1972 through August 31, 1973, to include:

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
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<td>Maintenance and Operation</td>
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</tr>
<tr>
<td>Travel</td>
<td>300.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$4,800.00</strong></td>
</tr>
</tbody>
</table>

4. Award a McLaughlin Predoctoral Fellowship to Mr. David Chi, for the period September 1, 1972 through August 31, 1973, to include:

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
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<tbody>
<tr>
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<tr>
<td>Travel</td>
<td>300.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$4,400.00</strong></td>
</tr>
</tbody>
</table>
5. Award a McLaughlin Predoctoral Fellowship to Miss Barbare Gayle Schneider, for the period September 1, 1972 through August 31, 1973, to include:

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Stipend</td>
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<td>Travel</td>
<td>$300.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$4,400.00</strong></td>
</tr>
</tbody>
</table>

6. Award a McLaughlin Predoctoral Fellowship to Mr. Joseph Glenn Sanger, for the period September 1, 1972 through August 31, 1973, to include:

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
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<tr>
<td>Travel</td>
<td>$300.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$4,400.00</strong></td>
</tr>
</tbody>
</table>

7. Award a McLaughlin Predoctoral Fellowship to Mr. Thomas Stephen Sudela, for the period September 1, 1972 through August 31, 1973, to include:

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stipend</td>
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<tr>
<td>Maintenance and Operation</td>
<td>$500.00</td>
</tr>
<tr>
<td>Travel</td>
<td>$300.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$4,800.00</strong></td>
</tr>
</tbody>
</table>

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 26, 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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Position</th>
<th>Salary Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>8473</td>
<td>Radio/Television/Film Specialist II</td>
<td>Monthly</td>
</tr>
<tr>
<td>8474</td>
<td>Radio/Television/Film Specialist I</td>
<td>Monthly</td>
</tr>
<tr>
<td>4416</td>
<td>Undersea Technician</td>
<td>Monthly</td>
</tr>
</tbody>
</table>

2. Delete the following position and salary range from the 1972-73 Personnel
Pay Plan, effective September 1, 1972:

<table>
<thead>
<tr>
<th>Code</th>
<th>Position</th>
<th>Salary Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>8486</td>
<td>Television Production Assistant</td>
<td>Monthly</td>
</tr>
</tbody>
</table>

3. Approve a new salary range for the following existing position in our
1972-73 Personnel Pay Plan, effective September 1, 1972:

<table>
<thead>
<tr>
<th>Code</th>
<th>Position</th>
<th>Salary Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>8715</td>
<td>Print Shop Supervisor</td>
<td>Monthly</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Donor and Address</th>
<th>Purpose and Conditions</th>
<th>Amount</th>
</tr>
</thead>
</table>
| 1. The Sealy & Smith Foundation  
For The John Sealy Hospital  
200 University Boulevard  
Galveston, Texas  | For support of the Advance- ment of the Development Pro- grams 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:

<table>
<thead>
<tr>
<th>Donor and Address</th>
<th>Purpose and Conditions</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. American Heart Association</td>
<td>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.</td>
<td>$4,950.00</td>
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<tr>
<td>Texas Affiliate, Inc.</td>
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<td>P. O. Box 9928</td>
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<tr>
<td>Austin, Texas</td>
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<tr>
<td>2. American Heart Association</td>
<td>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.</td>
<td>$5,240.00</td>
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<tr>
<td>3. American Heart Association</td>
<td>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. Svensson, Fellow in Pediatric Cardiology, Department of Pediatrics.</td>
<td>$3,907.00</td>
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<td>Austin, Texas</td>
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<tr>
<td>4. American Heart Association</td>
<td>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.</td>
<td>$4,700.00</td>
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<tr>
<td>Texas Affiliate, Inc.</td>
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<td>Austin, Texas</td>
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<tr>
<td>5. American Heart Association</td>
<td>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 Molecular Chemistry and Genetics.</td>
<td>$1,400.00</td>
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<tr>
<td>Bay Area Chapter</td>
<td></td>
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<tr>
<td>2221 Market Street</td>
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<tr>
<td>Galveston, Texas</td>
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<tr>
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<td>Purpose and Conditions</td>
<td>Amount</td>
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<tr>
<td><strong>6. American Heart Association</strong>&lt;br&gt;Bay Area Chapter&lt;br&gt;2221 Market Street&lt;br&gt;Galveston, Texas</td>
<td>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.</td>
<td>$1,400.00</td>
</tr>
<tr>
<td><strong>7. American Heart Association</strong>&lt;br&gt;Bay Area Chapter&lt;br&gt;2221 Market Street&lt;br&gt;Galveston, Texas</td>
<td>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.</td>
<td>$1,400.00</td>
</tr>
<tr>
<td><strong>8. American Heart Association</strong>&lt;br&gt;Bay Area Chapter&lt;br&gt;2221 Market Street&lt;br&gt;Galveston, Texas</td>
<td>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.</td>
<td>$1,400.00</td>
</tr>
<tr>
<td><strong>9. American Heart Association</strong>&lt;br&gt;Bay Area Chapter&lt;br&gt;2221 Market Street&lt;br&gt;Galveston, Texas</td>
<td>For research on Autogenous Tissue as an Intracavitary 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.</td>
<td>$1,400.00</td>
</tr>
<tr>
<td><strong>10. Damon Runyon Memorial Fund</strong>&lt;br&gt;For Cancer Research, Inc.&lt;br&gt;33 West 56th Street&lt;br&gt;New York, N.Y.</td>
<td>Grant No. D90-1196 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.</td>
<td>$18,000.00</td>
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### Donor and Address

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<tr>
<th></th>
<th>Purpose and Conditions</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>11. Parkinson's Disease Foundation, Inc.</td>
<td>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.</td>
<td>$750.00</td>
</tr>
<tr>
<td>12. Southern Medical Association</td>
<td>For research on (1) The Use of Frozen Mandibular Allograft in Reconstructive Surgery, and (2) The Significance of Cold-Induced Vascular Changes in the Cryo-therapy of Hemangiomatous lesions. The project is directed by Dr. Ted T. Huang, Resident in Plastic Surgery, Department of Surgery.</td>
<td>$1,000.00</td>
</tr>
<tr>
<td>13. E. R. Squibb &amp; Sons, Inc. c/o The Squibb Institute For Medical Research Princeton, New Jersey</td>
<td>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.</td>
<td>$2,750.00</td>
</tr>
<tr>
<td>14. The Upjohn Company Kalamazoo, Michigan</td>
<td>For a clinical study with U-26,452, Phase III, Protocol 004. The project is directed by Dr. Murphy T. Scarry, Assistant Professor, Department of Internal Medicine.</td>
<td>$1,250.00</td>
</tr>
<tr>
<td>15. West Chemical Products, Inc. 42-16 West Street Long Island City, N. Y.</td>
<td>For support of research entitled Evaluation of Prepydne and Betadine in Patient Preparation for Surgery. The project is directed by Dr. Jess O. Bryant, Assistant Professor, Department of Obstetrics and Gynecology.</td>
<td>$2,500.00</td>
</tr>
</tbody>
</table>
1. U.S. Department of Justice
   National Institute of Law Enforcement and Criminal Justice

   Research Grant No. 72-NI-99-00300
   $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

   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 MH 00163-05
   Extension of grant period without additional funds
   March 1, 1972 through June 9, 1973
   Apprenticeship Trainingship Program. This grant provides fellowships
   for selected medical students to study community health problems.
   Dr. Don W. Micks
   Galveston County
   National Institutes of Health
   Bureau of Health Manpower Education
   Training Contract No. NTH 72-4118
   $126,471
   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

   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

   National Institutes 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

   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 a new project.
   Dr. James E. Blankenship
   Galveston County

    Health Services and Mental Health Administration
    Family Planning Services
    Grant No. 06-H-000-064-03-0
    $264,057
    July 1, 1972 through June 30, 1973
    Service Grant - Four County Family Planning Project
    Dr. Wm. J. McGeary
    This is the third year of a continuing project.
    Galveston County 55%; Brazoria County 15%, Chambers County 15%, and Jefferson County 15%.
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%

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

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

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
National Institutes of Health
National Heart and Lung Institute

Research Grant No. 5 ROl 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 O. Hilton
Galveston County

17. Department of Health, Education, and Welfare
National Institutes of Health
National Heart and Lung Institute

Research Grant No. 5 POl HL 10893-07
$205,183 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.

......continued next page
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 $77,500.00, 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.
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 $36,000.00, for the period September 1, 1972 through August 31, 1973, for continued education 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.

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 $26,000.00, 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 $26,000.00 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 prenatal 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)-637 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 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)-638 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.
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 $16,221.30, 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 School Services for Pediatric and Psychiatric Patient Department.

RECOMMENDED AMENDMENTS TO 1971-72 BUDGET

General Administration
Office 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 Operations
Office of the Vice President for Academic Affairs and Dean of Medicine
2. Appoint Dr. John G. Brunh 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. Brunh 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 M. 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 652)

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)
Aerospace 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

5. 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

II. Accept the resignation of Dr. Cecile Khoury (non-tenure), Clinical Instructor, part-time, without salary, effective June 30, 1972. (RBC 620)

Biochemistry and Nutrition

12. Change the source of funds only for Dr. Witkow M. 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. Sorishl (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 - continued

Human Biological Chemistry and Genetics
16. Appoint Dr. John G. 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. Fortnoy (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. 13-7-5523615-03) 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 632)

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. Costanzo (non-tenure) as Assistant Professor at a salary rate of $24,000 for 12 months ($3,477 from General Budget and $18,523 from MHEC 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. Patay R. Kuepp (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. Dwell 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 - continued

Neurology and Psychiatry
29. Appoint Dr. William I. Kraege (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. Heimb'drger (203-re) as AsstshE at a salary of $18,000 for 12 months, effective August 1, 1972. Funds needed are to come from NIH Grant No. 5 T21-MH-06068-12. (RBC 650)

31. Appoint Dr. Lucy 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 NIH Grant 5T01-MH-07651-12. (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 NIH Grant No. 5 T01-MH-07651-12. (RBC 683)

34. Change the status of Dr. David C. Eldland (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 NIH Grant No. 1 T01-MH-13255-01. Dr. Eldland 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 Dr. Joe L. Slade, Jr., Assistant to the Chairman, from $12,000 ($5,870 from General Budget and $6,130 from MHRP - Otolaryngology) to $12,660 for 12 months ($6,000 from General Budget and $6,660 from MHRP - 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 MHRP - Pathology), effective July 1, 1972. General Budget funds needed are to come from Unallocated Appropriations - Instructional.
RECOMMENDED AMENDMENTS TO 1971-72 BUDGET - continued

Pathology
40. Appoint Dr. Ernest O. H. Mueller, Jr., (non-tenure) as Adjunct Instructor, part-time, without salary, effective July 1, 1972. (RBC 629)

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 666)

Pediatrics
42. Accept the resignation of Dr. Allan J. Alpand (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 ($4,07 from General Budget and $14,000 from DHHS 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 653)

44. Change the source of funds for Dr. Hugo Cervajal (non-tenure), Assistant Professor, at a salary rate of $22,500 for 12 months, from $2,500 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 656)

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 DHHS Grant No. 5 EO3-PE-00170-07, effective July 1, 1972. (RBC 655)

46. Accept the resignation of Dr. Mchesney 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. Mchesney Goodall (tenure), Professor, part-time, without salary, effective July 31, 1972. (RBC 697)

Preventive Medicine and Community Health
50. Change the status of Dr. Pratist L. Duff (non-tenure) from Lecturer, part-time, without salary, to Adjunct Professor, part-time, without salary, effective June 1, 1972. (RBC 604)

G-20
Preventive 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. Bowdon (non-tenure), Assistant Professor, from DHHS Grant No. 5 M04-AH-01109-07 to $8,000 from General Budget and $8,000 from DHHS Grant No. 5 M04-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 699)

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 690)

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 ERDP - 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 - continued

Surgery
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 $15,000 for 12 months, effective August 14, 1972. Additional funds needed are to come from USRDP - Surgery. (ERC 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 NIH Grant No. 5501-AH-00538-05. (ERC 675)

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 NIH Grant No. 5501-AH-00538-05. (ERC 634)

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. 72-1158(F). Dr. O'Donell also serves as Assistant Professor, part-time, without salary, in the Department of Preventive Medicine and Community Health. (ERC 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. (ERC 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 14, 1972. (ERC 603)

68. Reappoint Mrs. Carrie E. Evans (non-tenure) as Instructor, part-time, at a salary of $2,500 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. (ERC 699)

69. Accept the resignation of Miss Janet L. Shipley, Adjunct Instructor, part-time, without salary, effective December 31, 1972. (ERC 663)

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. (ERC 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. Jenicek also serves as Associate Professor at a salary rate of $25,000 for 12 months in the Department of Anesthesiology. (ERC 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 Service - Sesly & Smith Foundation Hospitals. Total salary for 12 months, $15,000. (ERC 667)
School 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, $12,300.00. (RSC 688)

74. Appoint Mr. Robert C. Greaser (non-tenure) as Instructor at a salary rate of $14,750 for 12 months, effective August 14, 1972. Funds needed are to come from NIH Grant No. 72-4118. (RSC 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 F. Rains from Area Clinical Nursing Director, full-time, to Area Clinical Nursing Director, part-time, at a salary 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. Durning, 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)
Moody State School

81. Appoint Dr. George R. Baker as Psychologist, part-time, at a salary of $9,500 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 $3,518 for 12 months in Pulmonary Therapy Service - Sealy & Smith Foundation Hospitals. Total salary for 12 months, $13,200. (RBC 682)

83. Change the salary of Mrs. Daphna 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 $1,600 for 12 months in the School of Allied Health Sciences - Associated Health Occupations. Total salary for 12 months, $15,000. (RBC 686)

84. Reappoint Mr. Larry R. Hudson as Assistant Technical Director, part-time, at a salary of $9,810 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, $13,000. (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 623)

88. Appoint Mrs. Brenda N. Beathard as School Teacher, part-time, without salary, effective June 19, 1972. (RBC 663)
School 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 $13,520 for 12 months ($81,130 from General Budget and $2,400 from NMRDP - 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. Giarturo 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 606)

96. Change the title of Mr. Dennis J. Bowman from Diving Operation Officer to Operations Officer at the same salary rate of $13,500 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. Worsel 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. Worsel also serves as Professor and Deputy Chief, Environmental Sciences, part-time, without salary, in the Department of Aerospace Medicine. (RBC 675)
The 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 9-13483. (RBC 715)

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 National Aeronautics and Space Administration Grant No. 70-04-EM-0152-02. (RBC 596)

The Sealy & Smith Foundation Hospitals

Nursing 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 596)

105. Appoint Miss Anna F. 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. (RBC 596)

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, Pulmonary Therapy Service, part-time, at a salary of $9,250 for 12 months in Pulmonary Therapy Service - University Hospitals. Total salary for 12 months, $13,100. (RBC 596)

107. Change the salary of Mrs. Dorothy C. Gusta, Technical Director, part-time, from $4,123 to $4,340 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, $13,100. (RBC 596)

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 596)
### Transfer of Funds

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(RBC 615)

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(RBC 706)

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<td></td>
</tr>
<tr>
<td></td>
<td>Funds needed for consultation fees for assistance in planning of a Central Food Processor Center.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(RBC 709)

<table>
<thead>
<tr>
<th>#</th>
<th>From:</th>
<th>To:</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>112</td>
<td>Office of the President: Travel</td>
<td>Office of the President: Maintenance and Operation</td>
<td>$2,000.00</td>
</tr>
<tr>
<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>Funds needed for the continued operations for the remainder of this fiscal year.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(RBC 653)
Transfer 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)
Transfer of Funds (cont'd.)

Human Biological Chemistry and Genetics

118. From: Unallocated Appropriations - Instructional - Classified
       To: Classified Salaries
       For: Create a new position of Secretary III at a salary rate of $7,400 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
       To: Human Biological Chemistry and Genetics: Classified Salaries
       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
       To: Preventive Medicine and Community Health - Travel
       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
       To: Radiology - Maintenance and Operation
       For: Funds needed for continued operations for the remainder of this fiscal year.

(RBC 598)
Transfer of Funds (Cont'd.)

122. From: Nursing Service - Administration: Travel
To: Nursing Service - Administration: Equipment
For: The purchase of equipment needed for the remainder of this fiscal year.

(RSC 695)

123. From: Unallocated Appropriations - Hospitals
To: Clinical Laboratory - Classified Salaries
For: Create a new position of Research Associate at a salary rate of $9,240 for 12 months, effective May 1, 1972.

(RSC 621)

124. From: Unallocated Appropriations - Hospitals
To: Radiology Service - Classified Salaries
For: Create a new position of X-Ray Technician I at a salary rate of $4,200 for 12 months, effective June 7, 1972.

(RSC 619)

125. From: The Marine Biomedical Institute - Travel
To: The Marine Biomedical Institute: Maintenance and Operation
For: To increase the Maintenance and Operation account for expenditures not originally anticipated.

(RSC 629)

126. From: Unallocated Appropriations - Hospitals
To: Security Division - Classified Salaries
For: Funds needed for the employment of ten (10) temporary employees for the summer months.

(RSC 620)
Transfer of Funds (Cont'd.)

127. From: Unallocated Appropriations - Hospitals $3,000.00

To: Hospital Equipment Fund - Sealy & Smith Foundation Hospitals - Maintenance & Operation $3,000.00

For: Funds needed for the installation of an Aero-Flush Sanitizer and an Ice Machine in the hospital.

(RBC 3812)

Sincerely yours,

[Signature]

T. G. Blocker, Jr., M.D.
President
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).
Approval is respectfully requested for the acceptance of the following Federal contracts and grants.

1. Grant No. 7 RO1 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 anthelminthics. The majority of expenditures from this award will be made in Harris County.

2. Grant No. 7 RO1 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.

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Job Title</th>
<th>Monthly Range</th>
<th>Annual Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 8415</td>
<td>Television Technical Director</td>
<td>$910-1,150</td>
<td>$10,920-13,800</td>
</tr>
<tr>
<td>2. 8819</td>
<td>Illustration Assistant II</td>
<td>495-592</td>
<td>5,928-7,104</td>
</tr>
<tr>
<td>3. 8556</td>
<td>Audio-Visual Educational Specialist I</td>
<td>592-770</td>
<td>7,104-9,240</td>
</tr>
<tr>
<td>4. 8813</td>
<td>Medical Photography Supervisor</td>
<td>800-1,050</td>
<td>9,600-12,600</td>
</tr>
<tr>
<td>5. 9317</td>
<td>Systems Analyst/Programmer II</td>
<td>1,150-1,475</td>
<td>13,800-17,700</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Job Title</th>
<th>Monthly Range</th>
<th>Annual Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 9083</td>
<td>Mail Services Supervisor</td>
<td>$515-694</td>
<td>$6,180-8,328</td>
</tr>
</tbody>
</table>

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

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 Maintenance & Operation 3,550.00 9,200.00

Office of the Director of General Services Classified Salaries $2,760.00 $24,510.00

For: This transfer is requested to reallocate funds according to current operating needs. These funds are to be used for required supplies and materials 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 $5,820, effective March 1, 1972.
RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Office 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 EXPENSE

Communications

3. Transfer of Funds: (RBC No. 119)

From: Space Rental
Maintenance & Operation
Unallocated Appropriations General
Classified Salaries

To: Communications
Classified Salaries
Maintenance & Operation

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

To: Planning Consultants
Maintenance & Operation

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 SCIENCES

Anatomy

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 BUDGET

Anatomy - 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 | $30,000.00 |
| To: Neurostructure and Function Equipment | $30,000.00 |

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 BUDGET

Pharmacology

17. Transfer of Funds: (RBC No. 116)

From: Unallocated Appropriations Instructional Faculty Salaries $60,000.00

To: Pharmacology Maintenance & Operation Equipment $29,600.00 $30,400.00 $60,000.00

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 SCIENCES

Allergy

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 M. 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 BUDGET

Pathology

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. E. B. Brandes
Dr. Matthew D. Burnett, Jr.
Dr. Stuart K. Cohan
Dr. Raymond Cohen
Dr. James L. Collier
Dr. James R. Curbo
Dr. Murdina M. Desmond
Dr. Gerald Y. George
Dr. Jack R. Hild
Dr. Frank D. Hill
Dr. Alvin Jaffee
Dr. Robert E. Leaton
Dr. Paul Lensky
Dr. A. Pidd Miller
Dr. A. A. Mintz
Dr. Max R. Mintz
Dr. David M. Mumford
Dr. A. J. Rudolph
Dr. George W. Salmon
Dr. David Schrum
Dr. Joseph Shoss
Dr. Nuel C. Windrow
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. 140)

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. Benley 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 BUDGET

Surgery - 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 as 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. Pleasant
   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. Moura
   Dr. James Greenwood, Jr.  Dr. Charles R. Neblett
   Dr. Richard M. Hirshberg

HO-7
RECOMMENDED AMENDMENTS TO THE 1971-72 BUDGET

Surgery - 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. Robert M. Davis  
Dr. Jorge A. deCardenas  
Dr. J. Ray Dickey  
Dr. J. Charles Dickson  
Dr. William L. Draper  
Dr. Herbert H. Harris  
Dr. John W. Herndon

Dr. Joe A. Izen  
Dr. Van L. Lawrence  
Dr. Marvin W. Lerner  
Dr. Richard M. Turney  
Dr. Charles A. Van Wart  
Dr. Allen N. Weaver  
Dr. Ben T. Withers  
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. Hermann A. Dobbs, Jr.  
Dr. John B. Fitzgerald  
Dr. Gene A. Guinn  
Dr. Beryl L. Harberg  
Dr. Walter S. Henly

Dr. Charles H. McCollum, III  
Dr. Robert C. Overton  
Dr. Luther H. Parr  
Dr. Don C. Quast  
Dr. Richard K. Ricks  
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. Lewis B. Fram  
Dr. N. M. Goodloe  
Dr. Donald S. Huge  
Dr. Victor L. Kobb  
Dr. Homer F. Leifeste  
Dr. Ross D. Margraves  
Dr. Robert R. Martinez

Dr. Ray M. Morgan, Jr.  
Dr. Donald J. Neese  
Dr. Harold G. Schillaci  
Dr. Thane T. Sponsel  
Dr. Albert M. Thomas  
Dr. Garrett Tucker, III  
Dr. E. Carson Williams

Respectfully submitted,

Cheves McC. Smythe, M.D.
President

HQ-8
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.
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 R01 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.

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<th>Donor</th>
<th>Purpose and Condition</th>
<th>Amount</th>
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<td>1. The Procter &amp; Gamble Company 6000 Center Hill Road Cincinnati, Ohio 45224 Dr. W. W. Briner</td>
<td>To add to the Procter &amp; Gamble Company Fund for the period September 1, 1972, through August 31, 1973</td>
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<td>2. Vick Divisions Research One Bradford Road Mount Vernon, New York 10553 Dr. Willard J. Tarbet Director of Dental Research</td>
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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)
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Respectfully submitted,

John V. Olson
Dean
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.

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<th>Donor</th>
<th>Purpose</th>
<th>Amount</th>
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| 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 |
| Mr. Conrad Bering  
306 Fall River  
Houston, Texas | Lorene Bering Memorial Fund for Education, Research & Development | $5,000.00 |
| Mr. William A. Emig  
Trust Officer  
Elizabeth R. Graves Trust  
c/o Albuquerque National Bank  
Albuquerque, New Mexico | Cancer Research | $7,670.39 |
1. Modification No. 2S to National Aeronautics and Space Administration Contract NAS 8-11117 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. Johns.

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. 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. Monroe F. Johns.

3. Department of Health, Education, and Welfare, Public Health Service, National Institute of General Medical Sciences Grant No. 5 R01 GM25597-06 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, 1972 to August 31, 1975. 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 RO1 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 W. 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.

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.
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)

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6. Department of Health, Education, and Welfare, Public Health Service, National Cancer Institute Grant 3 P01 CA10043-02. NS8 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 CA01785-2. BBCA 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.
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 UE-222L 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-43-65-604, and the sixty-five percent time rate of $12,000.00 per annum from Contract NIH-RCR-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. Gloria 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-POL-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)
<table>
<thead>
<tr>
<th>Department</th>
<th>Appropriation Item/Title</th>
<th>Page No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Communications</td>
<td>Maintenance &amp; Operation</td>
<td>177</td>
<td>$19,500.00</td>
</tr>
<tr>
<td>Police Department</td>
<td>&quot;</td>
<td>184</td>
<td>$10,000.00</td>
</tr>
<tr>
<td>Reserves</td>
<td>&quot;</td>
<td>191</td>
<td>$8,000.00</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>$1,150,277.63</strong></td>
</tr>
</tbody>
</table>

**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,

[Signature]

B. Lee Clark, M. S.
President
Dr. Charles A. LeMaistre  
Chancellor  
The University of Texas System  
Austin, Texas 78712

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:

**Gifts:** I recommend acceptance of the following gift and that the appreciation of the Board be sent to the donor by the Secretary.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Purpose</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Schiff Bio-Food Products, Inc. Moonachie Avenue, Moonachie, New Jersey 07074</td>
<td>Teaching of Nutrition by Division of Continuing Education</td>
<td>$5,000.00*</td>
</tr>
</tbody>
</table>

*No Letter of Transmittal Received
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. 0BG-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. Castrell, Ph.D., Research Associate (Without Tenure), payable at the rate of $12,000.00 per annum from Public Health Service Grant 1 PO1 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)

<table>
<thead>
<tr>
<th>TRANSFER TO:</th>
<th>Appropriation Item</th>
<th>Page No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office of the Dean</td>
<td>Maintenance and Operation</td>
<td>5</td>
<td>$16,000.00</td>
</tr>
<tr>
<td>Office of the Dean</td>
<td>Travel</td>
<td>5</td>
<td>350.00</td>
</tr>
<tr>
<td>Business Office</td>
<td>Maintenance and Operation</td>
<td>7</td>
<td>1,150.00</td>
</tr>
<tr>
<td>General Expense</td>
<td>Official Entertainment</td>
<td>8</td>
<td>150.00</td>
</tr>
<tr>
<td>General Expense</td>
<td>Unemployment Compensation Insurance</td>
<td>8</td>
<td>200.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$17,550.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TRANSFER FROM:</th>
<th>Appropriation Item</th>
<th>Page No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational and General</td>
<td>Maintenance and Operation</td>
<td>9</td>
<td>$17,550.00</td>
</tr>
</tbody>
</table>
DIVISION OF CONTINUING EDUCATION

Educational 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 5 603-RA-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 COMMUNICATION DISORDERS

Transfer 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:

<table>
<thead>
<tr>
<th>Department</th>
<th>Appropriation Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Plant</td>
<td>Classified Personnel</td>
<td>$3,500.00</td>
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<tr>
<td>Office of the Director</td>
<td>Travel</td>
<td>350.00</td>
</tr>
<tr>
<td>Physical Plant</td>
<td>Maintenance and Operation</td>
<td>4,500.00</td>
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<tr>
<td></td>
<td>TOTAL</td>
<td>$8,350.00</td>
</tr>
</tbody>
</table>

TRANSFER FROM:

<table>
<thead>
<tr>
<th>Department</th>
<th>Appropriation Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reserves</td>
<td>Reserve for Maintenance</td>
<td>$8,350.00</td>
</tr>
<tr>
<td></td>
<td>and Operation</td>
<td></td>
</tr>
</tbody>
</table>

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 E. Knudson, Jr., M.D., Ph.D.

DE 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.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Purpose</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Houston Foundation</td>
<td>Early Prevention of Individual Violence Project</td>
<td>$10,028.00*</td>
</tr>
<tr>
<td>Mr. Wm. A. Kirkland, Chairman</td>
<td>First City National Bank Bldg. Houston, Texas 77002</td>
<td></td>
</tr>
</tbody>
</table>

* No Letter of Transmittal Received
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 EST 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 EST 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-204-71-4073, 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-824-71-4063, 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. Eiten, 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:

<table>
<thead>
<tr>
<th>Department</th>
<th>Appropriation Item</th>
<th>Page No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office of the Dean</td>
<td>Maintenance and Operation</td>
<td>4</td>
<td>$9,100.00</td>
</tr>
<tr>
<td>Business Office</td>
<td>&quot;</td>
<td>6</td>
<td>15.00</td>
</tr>
<tr>
<td>General Expense</td>
<td>&quot;</td>
<td>7</td>
<td>1,100.00</td>
</tr>
<tr>
<td>Library Services</td>
<td>Maintenance and Operation</td>
<td>8</td>
<td>4,000.00</td>
</tr>
<tr>
<td>Health Services Administration</td>
<td>&quot;</td>
<td>13</td>
<td>4,700.00</td>
</tr>
<tr>
<td>International Health</td>
<td>&quot;</td>
<td>17</td>
<td>1,300.00</td>
</tr>
<tr>
<td>Institute of Environmental Health</td>
<td>&quot;</td>
<td>19</td>
<td>21,000.00</td>
</tr>
<tr>
<td>Infectious Diseases</td>
<td>&quot;</td>
<td>22</td>
<td>21,500.00</td>
</tr>
<tr>
<td>Population Studies</td>
<td>&quot;</td>
<td>25</td>
<td>6,500.00</td>
</tr>
<tr>
<td>Urban Health</td>
<td>&quot;</td>
<td>27</td>
<td>9,600.00</td>
</tr>
<tr>
<td>Police Department</td>
<td>&quot;</td>
<td>31</td>
<td>2,200.00</td>
</tr>
<tr>
<td>Physical Plant</td>
<td>&quot;</td>
<td>32</td>
<td>61,000.00</td>
</tr>
<tr>
<td>Reserves</td>
<td>Reserve for Classified</td>
<td>34</td>
<td>15,000.00</td>
</tr>
<tr>
<td>Salaries</td>
<td>TOTAL</td>
<td></td>
<td>$155,615.00</td>
</tr>
</tbody>
</table>

PH-3
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,

[Signature]

Neil A. Stallones, M.D., M.P.H.  
Dean
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:

<table>
<thead>
<tr>
<th>Donor</th>
<th>Purpose and Condition</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Houston Endowment Inc.</td>
<td>Funds to be used for fellowships for students in the Nursing School and shall bear the name of &quot;Mary Gibbs Jones Fellowships&quot;</td>
<td>$25,000</td>
</tr>
</tbody>
</table>

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.
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, duplicating services, photographic services, janitorial services, security services, and such 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:

<table>
<thead>
<tr>
<th>Title &amp; Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Academic Rate</th>
<th>Summer Stipend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nancy G. Ellis-Anwyl</td>
<td>7/16 - 8/31</td>
<td>100</td>
<td>$11,500</td>
<td>$1,916</td>
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<tr>
<td>(RBC# N-172)</td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

Source of Funds: Summer Session Teaching Salaries

Clinical Nursing School at Galveston

The following academic appointments were made for the 1972 Summer Session:

<table>
<thead>
<tr>
<th>Title &amp; Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Academic Rate</th>
<th>Summer Stipend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joyce Rader</td>
<td>7/16 - 8/31</td>
<td>100</td>
<td>$15,000</td>
<td>$2,500</td>
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<tr>
<td>(RBC# N-110)</td>
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<td></td>
</tr>
<tr>
<td>Janeyce Rader</td>
<td>7/16 - 8/31</td>
<td>100</td>
<td>$15,000</td>
<td>$2,500</td>
</tr>
<tr>
<td>(RBC# N-111)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kathryn Jewell</td>
<td>7/16 - 8/31</td>
<td>100</td>
<td>$12,000</td>
<td>2,000</td>
</tr>
<tr>
<td>(RBC# N-109)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source of Funds: Summer Session Teaching Salaries
Clinical Nursing School at Galveston (continued)

<table>
<thead>
<tr>
<th>Title &amp; Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Academic Rate</th>
<th>Summer Stipend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clara Milko</td>
<td>7/16 - 8/31</td>
<td>100</td>
<td>$12,500</td>
<td>$2,083</td>
</tr>
<tr>
<td>(RBC# N-176)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Source of Funds: Pediatric Nurse Practitioner Contract</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Title &amp; Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Academic Rate</th>
<th>Summer Stipend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Professor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frances Moncure</td>
<td>7/16 - 8/31</td>
<td>100</td>
<td>$15,000</td>
<td>$2,500</td>
</tr>
<tr>
<td>(RBC# N-161)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Source of Funds: Planning for Houston Nursing School</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Clinical Nursing School at San Antonio

The following academic appointments were made for the 1972 Summer Session:

<table>
<thead>
<tr>
<th>Title &amp; Name</th>
<th>Period of Appointment</th>
<th>% Time</th>
<th>Academic Rate</th>
<th>Summer Stipend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jo Lorraine Norton</td>
<td>8/7 - 8/31</td>
<td>100</td>
<td>$11,000</td>
<td>$ 986</td>
</tr>
<tr>
<td>(RBC# N-181)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frecia Taylor</td>
<td>8/7 - 8/31</td>
<td>100</td>
<td>11,000</td>
<td>$ 986</td>
</tr>
<tr>
<td>(RBC# N-182)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Source of Funds: Summer Session Teaching Salaries</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 Tateasian (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

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# 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

<table>
<thead>
<tr>
<th>SECURITY</th>
<th>BOOK VALUE 8/31/71</th>
<th>BOOK YIELD 8/31/71</th>
<th>BOOK VALUE 7/31/72</th>
<th>BOOK YIELD 7/31/72</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DEBT SECURITIES:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U. S. Government Obligations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treasury Bonds</td>
<td>$107,723,291.67</td>
<td>4.26%</td>
<td>$102,470,752.89</td>
<td>4.32%</td>
</tr>
<tr>
<td>Government Agencies</td>
<td>$5,436,873.36</td>
<td>6.81</td>
<td>24,842,822.28</td>
<td>6.91</td>
</tr>
<tr>
<td>FHA Mortgages</td>
<td>$15,622,444.51</td>
<td>6.89</td>
<td>15,705,625.62</td>
<td>6.86</td>
</tr>
<tr>
<td><strong>TOTAL - U. S. Government Obligations</strong></td>
<td>$128,784,611.54</td>
<td>4.68</td>
<td>146,019,200.79</td>
<td>5.03</td>
</tr>
<tr>
<td>Corporate Bonds</td>
<td>$234,360,279.62</td>
<td>4.91</td>
<td>233,735,792.28</td>
<td>4.93</td>
</tr>
<tr>
<td><strong>TOTAL - DEBT SECURITIES</strong></td>
<td>$363,144,891.16</td>
<td>4.83</td>
<td>379,754,993.07</td>
<td>4.97</td>
</tr>
<tr>
<td><strong>EQUITY SECURITIES:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Convertible Debentures</td>
<td>14,933,307.87</td>
<td>4.97</td>
<td>10,499,040.32</td>
<td>5.24</td>
</tr>
<tr>
<td>Convertible Preferred Stocks</td>
<td>$15,848,192.03</td>
<td>4.16</td>
<td>15,848,192.03</td>
<td>4.16</td>
</tr>
<tr>
<td>Common Stocks</td>
<td>$184,688,881.95</td>
<td>4.30</td>
<td>221,051,630.83</td>
<td>4.36</td>
</tr>
<tr>
<td><strong>TOTAL - EQUITY SECURITIES</strong></td>
<td>$215,470,381.85</td>
<td>4.34</td>
<td>247,398,863.18</td>
<td>4.38</td>
</tr>
<tr>
<td><strong>TOTAL - LONG TERM INVESTMENTS</strong></td>
<td>$578,615,273.01</td>
<td>4.65</td>
<td>627,153,856.25</td>
<td>4.74</td>
</tr>
<tr>
<td><strong>CASH &amp; EQUIVALENT:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial Paper</td>
<td>15,750,000.00</td>
<td>5.45</td>
<td></td>
<td>0.00</td>
</tr>
<tr>
<td>Investment Transactions--</td>
<td>-0-</td>
<td></td>
<td>510.75</td>
<td></td>
</tr>
<tr>
<td>Accounts Receivable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>$483,744.55</td>
<td></td>
<td>804,453.58</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL - CASH &amp; EQUIVALENT</strong></td>
<td>$16,233,744.55</td>
<td></td>
<td>804,964.33</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL - SECURITIES, CASH &amp; EQUIVALENT</strong></td>
<td>$594,849,017.56</td>
<td>4.67%</td>
<td>$627,958,820.58</td>
<td>4.73%</td>
</tr>
</tbody>
</table>
## SUMMARY OF TRANSACTIONS
### July 31, 1972

**Purchases:**

<table>
<thead>
<tr>
<th>Security Type</th>
<th>Cost</th>
<th>Current Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate Bonds</td>
<td>$86,852.87</td>
<td>7.46%</td>
</tr>
<tr>
<td>Common Stocks</td>
<td>7,515,025.70</td>
<td>4.36%</td>
</tr>
<tr>
<td><strong>TOTAL LONG TERM PURCHASES</strong></td>
<td><strong>$7,601,878.57</strong></td>
<td><strong>4.40%</strong></td>
</tr>
</tbody>
</table>

**Sales:**

<table>
<thead>
<tr>
<th>Security Type</th>
<th>Proceeds ($ or Loss)</th>
<th>(Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Government Obligations--</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA Principal Payments</td>
<td>$63,506.97 (1,306.13)</td>
<td>7.37%</td>
<td></td>
</tr>
<tr>
<td>FHA Mortgages</td>
<td>53,246.69 -0-</td>
<td>6.86%</td>
<td></td>
</tr>
<tr>
<td>Corporate Bonds</td>
<td>43,840.96 (1,283.99)</td>
<td>5.81%</td>
<td></td>
</tr>
<tr>
<td>Convertible Debentures</td>
<td>2,463,500.00 233,839.78</td>
<td>4.86%</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL LONG TERM SALES</strong></td>
<td><strong>$2,624,194.62</strong></td>
<td><strong>251,249.66</strong></td>
<td><strong>4.98%</strong></td>
</tr>
</tbody>
</table>

**BOND EXCHANGES**

<table>
<thead>
<tr>
<th>Details</th>
<th>Increase in Annual Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Far Exchanged</td>
<td>$20,670.54</td>
</tr>
<tr>
<td>$5,942,000</td>
<td></td>
</tr>
</tbody>
</table>

**PERMANENT UNIVERSITY FUND BOOK VALUE**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 30, 1972 Balance</td>
<td>$626,185,071.30</td>
</tr>
<tr>
<td>Additions (July, 1972)</td>
<td></td>
</tr>
<tr>
<td>Realized Net Gain or (Loss) on Security Transactions</td>
<td>$251,249.66</td>
</tr>
<tr>
<td>From General Land Office</td>
<td>1,522,499.62</td>
</tr>
<tr>
<td>July 31, 1972 Balance</td>
<td>$627,958,820.58</td>
</tr>
</tbody>
</table>
## INVESTMENTS ACQUIRED

<table>
<thead>
<tr>
<th>PAR VALUE OR CURRENT NO. SHARES</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
<th>TOTAL NET COST</th>
<th>CURRENT YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORPORATE BONDS:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$ 36,000</td>
<td>Diamond State Telephone Co. Debs., 4-3/4%, due 4/1/94</td>
<td>$71.982</td>
<td>$25,913.13</td>
<td>7.35%</td>
</tr>
<tr>
<td>15,000</td>
<td>Florida Power Corp. 1st Mtgs., 4-1/4%, due 5/1/92</td>
<td>68.738</td>
<td>10,310.70</td>
<td>7.25%</td>
</tr>
<tr>
<td>42,000</td>
<td>Great Northern Railway Co. Gen. Mtge., 2-5/8%, due 1/1/10</td>
<td>37.699</td>
<td>15,833.52</td>
<td>7.75%</td>
</tr>
<tr>
<td>3,000</td>
<td>Pacific Tel. &amp; Tel. Co. Debs., 4-5/8%, due 5/1/00</td>
<td>69.804</td>
<td>2,094.12</td>
<td>7.14%</td>
</tr>
<tr>
<td>46,000</td>
<td>Texaco Inc. Notes, 4-1/2%, due 12/15/89</td>
<td>71.09</td>
<td>32,701.40</td>
<td>7.50%</td>
</tr>
<tr>
<td><strong>TOTAL - Corporate Bonds</strong></td>
<td></td>
<td></td>
<td>86,852.87</td>
<td>7.46%</td>
</tr>
<tr>
<td><strong>COMMON STOCKS:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38,500 Shs.</td>
<td>Florida Power &amp; Light Company, 2-for-1 split</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>15,000 &quot;</td>
<td>General Telephone &amp; Electronics Corp.</td>
<td>27.00</td>
<td>405,000.00</td>
<td>5.63%</td>
</tr>
<tr>
<td>200 &quot;</td>
<td>International Business Machines Corp.</td>
<td>399.275</td>
<td>79,855.00</td>
<td>1.35%</td>
</tr>
<tr>
<td>118,500 &quot;</td>
<td>Lone Star Gas Company</td>
<td>30.32</td>
<td>3,593,170.80</td>
<td>4.49%</td>
</tr>
<tr>
<td>18,300 &quot;</td>
<td>Manufacturers Hanover Corporation</td>
<td>32.75</td>
<td>599,662.20</td>
<td>4.80%</td>
</tr>
<tr>
<td>17,300 &quot;</td>
<td>Minnesota Mining &amp; Manufacturing Company, 2-for-1 split</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>10,000 &quot;</td>
<td>Mobil Oil Corporation</td>
<td>58.25</td>
<td>582,500.00</td>
<td>4.46%</td>
</tr>
<tr>
<td>54,900 &quot;</td>
<td>Safeway Stores, Inc.</td>
<td>35.63</td>
<td>1,955,837.70</td>
<td>3.80%</td>
</tr>
<tr>
<td>6,500 &quot;</td>
<td>Union Carbide Corporation</td>
<td>46.00</td>
<td>299,000.00</td>
<td>4.35%</td>
</tr>
<tr>
<td><strong>TOTAL - Common Stocks</strong></td>
<td></td>
<td></td>
<td>7,515,025.70</td>
<td>6.36%</td>
</tr>
<tr>
<td><strong>TOTAL - LONG TERM INVESTMENTS</strong></td>
<td></td>
<td></td>
<td>7,601,878.57</td>
<td>4.40%</td>
</tr>
<tr>
<td><strong>BONDS EXchanged IN:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$5,942,000</td>
<td>See Bond Exchange Schedule for Detail</td>
<td>$5,185,798.13</td>
<td>5.02%</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL - INVESTMENTS ACQUIRED</strong></td>
<td></td>
<td></td>
<td>$12,787,676.70</td>
<td>4.65%</td>
</tr>
</tbody>
</table>
## INVESTMENTS DISPOSED OF

<table>
<thead>
<tr>
<th>No. Shares</th>
<th>Description</th>
<th>Price</th>
<th>Total Net Proceeds</th>
<th>Gain or (Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>$63,506.97</td>
<td>U. S. GOVERNMENT OBLIGATIONS:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GNMA, Various Pools</td>
<td>$100.00</td>
<td>$63,506.97</td>
<td>($1,306.13)</td>
<td>7.37%</td>
</tr>
<tr>
<td></td>
<td>FHA Mortgages</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Principal Payments</td>
<td>100.00</td>
<td>$53,246.69</td>
<td>0</td>
<td>6.86</td>
</tr>
<tr>
<td></td>
<td>TOTAL - U. S. Government Obligations</td>
<td></td>
<td>$116,753.66</td>
<td>($1,306.13)</td>
<td>7.14</td>
</tr>
<tr>
<td>1,000.00</td>
<td>CORPORATE BONDS:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34,000.00</td>
<td>American Tel. &amp; Tel. Co. Debs., 5-1/8%, due 4/1/01</td>
<td>75.43</td>
<td>754.30</td>
<td>(250.07)</td>
<td>7.15</td>
</tr>
<tr>
<td>11,000.00</td>
<td>Peoples Gas Light &amp; Coke Co. 1st &amp; Ref. Mtge., 5-3/8%, due 7/15/91</td>
<td>100.00</td>
<td>34,000.00</td>
<td>1,233.04</td>
<td>5.375</td>
</tr>
<tr>
<td>2,176,000.00</td>
<td>Southwestern Bell Tel. Co. Debs., 5-7/8%, due 6/1/03</td>
<td>82.61</td>
<td>9,086.66</td>
<td>(2,266.96)</td>
<td>7.30</td>
</tr>
<tr>
<td>5,942,000.00</td>
<td>Houston Lighting &amp; Power Co. Conv. Debs., 5-1/2%, due 2/1/85</td>
<td>113.22</td>
<td>2,463,600.00</td>
<td>253,839.78</td>
<td>4.86</td>
</tr>
<tr>
<td></td>
<td>TOTAL - CORPORATE BONDS</td>
<td></td>
<td>$43,840.96</td>
<td>(1,283.99)</td>
<td>5.81</td>
</tr>
<tr>
<td></td>
<td>TOTAL - LONG TERM INVESTMENTS</td>
<td></td>
<td>$2,624,194.62</td>
<td>251,249.66</td>
<td>4.98</td>
</tr>
<tr>
<td>5,942,000.00</td>
<td>BONDS EXCHANGED OUT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5,942,000.00</td>
<td>See Bond Exchange Schedule for Detail</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TOTAL - INVESTMENTS DISPOSED OF</td>
<td></td>
<td>$8,288,524.05</td>
<td>$251,249.66</td>
<td>4.98%</td>
</tr>
</tbody>
</table>
## PERMANENT UNIVERSITY FUND
### SUMMARY OF BOND EXCHANGES
#### July, 1972

<table>
<thead>
<tr>
<th>Exchanges</th>
<th>Par Value Exchanged</th>
<th>Book Value</th>
<th>Principal Takeout or (Payup) Required</th>
<th>Increase in Annual Income*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate Bonds for</td>
<td>$ 5,942,000</td>
<td>$ 5,664,329.43</td>
<td>$ 678,531.30</td>
<td>$ 20,670.54</td>
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<tr>
<td>Corporate Bonds</td>
<td></td>
<td>$ 5,185,798.13</td>
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<td></td>
</tr>
<tr>
<td>(TOTAL - All Exchanges</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July, 1972)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Total income improvement includes income from investment of takeout on exchanges at current market yields.
# BOND EXCHANGES
(July, 1972)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>ISSUE EXCHANGED</th>
<th>ISSUE RECEIVED</th>
<th>BOOK VALUE</th>
<th>BOOK YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate Bonds for Corporate Bonds</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ohio Bell Tel. Co. Debs., 5-3/8%, due 3/1/2007</td>
<td>$160,000</td>
<td>Ohio Bell Tel. Co. Debs., 5%, due 2/1/2006</td>
<td>$165,206.94</td>
<td>$157,061.34</td>
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<tr>
<td>Ditto</td>
<td>70,000</td>
<td>Indiana Bell Tel. Co. Debs., 4-3/8%, due 6/1/2003</td>
<td>72,278.04</td>
<td>64,015.94</td>
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<tr>
<td>Ditto</td>
<td>50,000</td>
<td>Indiana Bell Tel. Co. Debs., 5-1/2%, due 4/1/2007</td>
<td>51,627.17</td>
<td>52,157.67</td>
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<tr>
<td>American Tel. &amp; Tel. Co. Debs., 5-1/8%, due 4/1/2001</td>
<td>210,000</td>
<td>Mountain States Tel. &amp; Tel. Co. Debs., 4-1/2%, due 6/1/2002</td>
<td>210,918.97</td>
<td>194,123.17</td>
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<tr>
<td>Ditto</td>
<td>50,000</td>
<td>Mountain States Tel. &amp; Tel. Co. Debs., 5-1/2%, due 6/1/2005</td>
<td>30,218.80</td>
<td>31,860.80</td>
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<tr>
<td>Ditto</td>
<td>20,000</td>
<td>Chesapeake &amp; Potomac Tel. Co. of Virginia Debs., 5-1/4%, due 5/1/2005</td>
<td>20,087.52</td>
<td>20,116.92</td>
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<tr>
<td>Pacific Gas &amp; Electric Co. 1st &amp; Ref. Mtge., 4-1/2%, due 6/1/96</td>
<td>170,000</td>
<td>Pacific Gas &amp; Electric Co. 1st &amp; Ref. Mtge., 4-1/2%, due 12/1/96</td>
<td>164,163.80</td>
<td>163,011.20</td>
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<tr>
<td>Chesapeake &amp; Potomac Tel. Co. of Maryland Debs., 5-7/8%, due 6/1/2004</td>
<td>50,000</td>
<td>Wisconsin Tel. Co. Debs., 4-1/2%, due 7/1/92</td>
<td>49,880.25</td>
<td>43,453.25</td>
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<tr>
<td>Ditto</td>
<td>30,000</td>
<td>Southern Bell Tel. &amp; Tel. Co. Debs., 4-3/8%, due 4/1/2001</td>
<td>29,928.15</td>
<td>24,349.95</td>
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</table>

*Total Income Improvement, including income from investment of takeout (payup) on exchange.
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<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE EXCHANGED</th>
<th>DESCRIPTION</th>
<th>ISSUE RECEIVED</th>
<th>BOOK VALUE</th>
<th>BOOK YIELD INCREASE YIELD</th>
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<tbody>
<tr>
<td>$ 30,000</td>
<td>Chesapeake &amp; Potomac Tel. Co. of Maryland Debs., 5-7/8%, due 6/1/2004</td>
<td>Southern Bell Tel. &amp; Tel. Co. Debs., 5%, due 12/1/97</td>
<td>$29,928.15 $26,923.95</td>
<td>-0.12%</td>
<td>5.77% $73.68*</td>
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<tr>
<td>25,000</td>
<td>Ditto</td>
<td>Chesapeake &amp; Potomac Tel. Co. of Virginia Debs., 5-5/8%, due 3/1/2007</td>
<td>$24,940.12 $23,665.37</td>
<td>0.10</td>
<td>5.99 $41.01</td>
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<tr>
<td>26,000</td>
<td>Ditto</td>
<td>Northwestern Bell Tel. Co. Debs., 3-1/4%, due 2/1/96</td>
<td>$25,937.73 $18,841.03</td>
<td>-0.57</td>
<td>5.32 $128.35</td>
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<tr>
<td>20,000</td>
<td>Ditto</td>
<td>Southwestern Bell Tel. Co. Debs., 4-5/8%, due 8/1/95</td>
<td>$19,952.10 $17,127.30</td>
<td>-0.13</td>
<td>5.76 $75.56</td>
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<tr>
<td>39,000</td>
<td>Ditto</td>
<td>Diamond State Tel. Co. Debs., 4-3/4%, due 4/1/94</td>
<td>$38,906.60 $34,198.91</td>
<td>-0.14</td>
<td>5.75 $117.88</td>
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<tr>
<td>219,000</td>
<td>Ditto</td>
<td>Chesapeake &amp; Potomac Tel. Co. of Baltimore City Debs., 3-1/4%, due 2/1/95</td>
<td>New Jersey Bell Tel. Co. Debs., 3-3/8%, due 12/1/95</td>
<td>$181,301.87 $182,197.58</td>
<td>0.10</td>
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<td>209,000</td>
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<td>Northwestern Bell Tel. Co. Debs., 3-1/4%, due 2/1/96</td>
<td>$173,023.24 $170,640.64</td>
<td>0.08</td>
<td>4.53 $203.23</td>
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<td>200,000</td>
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<td>Bristol-Myers Co. SF Debs., 5.70%, due 6/1/92</td>
<td>Texaco Inc. Debs., 5-3/4%, due 7/15/97</td>
<td>$198,700.51 $193,184.51</td>
<td>0.26</td>
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<tr>
<td>155,000</td>
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<td>American Tel. &amp; Tel. Co. Debs., 5-1/8%, due 4/1/2001</td>
<td>New Jersey Bell Tel. Co. Debs., 5-3/8%, due 6/1/2005</td>
<td>$155,678.28 $144,439.23</td>
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<td>135,000</td>
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<td>Southern Bell Tel. &amp; Tel. Co. Debs., 4-3/4%, due 9/1/2000</td>
<td>$135,590.76 $129,704.76</td>
<td>-0.09</td>
<td>5.01 $126.63</td>
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<td>DESCRIPTION</td>
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</tr>
<tr>
<td>100,000</td>
<td>Ditto</td>
<td>Pacific Tel. &amp; Tel. Co. Debs., 4-5/8%, due 4/1/99</td>
<td>100,437.60  95,081.60 -.19 4.91  $85.55</td>
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<tr>
<td>50,000</td>
<td>Ditto</td>
<td>New York Tel. Co. Ref. Mtge., 4-5/8%, due 1/1/2002</td>
<td>50,218.80  47,070.80 -.09 5.01  $85.05</td>
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<tr>
<td>25,000</td>
<td>Ditto</td>
<td>Pacific Northwest Bell Tel. Co. Debs., 4-1/2%, due 4/1/2003</td>
<td>25,109.40  23,053.15 -.10 5.00  $59.39</td>
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<tr>
<td>10,000</td>
<td>Ditto</td>
<td>Illinois Bell Tel. Co. 1st Mtge., 4-3/8%, due 7/1/2003</td>
<td>10,043.76  8,975.76 -.07 5.03  $36.97</td>
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<tr>
<td>250,000</td>
<td>Ditto</td>
<td>Southern Bell Tel. &amp; Tel. Co. Debs., 4-3/8%, due 4/1/2001</td>
<td>251,094.01  228,356.51 -.16 4.94  $557.51</td>
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<tr>
<td>85,000</td>
<td>Ditto</td>
<td>Pacific Tel. &amp; Tel. Co. Debs., 4-5/8%, due 5/1/2000</td>
<td>85,371.96  80,483.61 -.12 4.98  $103.51</td>
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<tr>
<td>50,000</td>
<td>Consumers Power Co. 1st Mtge., 4-5/8%, due 8/1/89</td>
<td>Southwestern Electric Power Co. 1st Mtge., 4-3/8%, due 4/1/93</td>
<td>50,460.45  46,837.95 .31 4.86  $252.37</td>
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<td></td>
</tr>
<tr>
<td>50,000</td>
<td>Ditto</td>
<td>Central Illinois Public Service Co. 1st Mtge., 4-1/2%, due 5/1/93</td>
<td>50,460.45  47,432.95 .45 4.90  $247.75</td>
<td></td>
<td></td>
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<tr>
<td>PAR VALUE</td>
<td>ISSUE EXCHANGED</td>
<td>BOOK VALUE</td>
<td>ISSUE RECEIVED</td>
<td>BOOK YIELD</td>
<td>NEW BOOK YIELD</td>
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<tr>
<td>-----------</td>
<td>----------------</td>
<td>------------</td>
<td>----------------</td>
<td>------------</td>
<td>----------------</td>
</tr>
<tr>
<td>50,000</td>
<td>Consumers Power Co. 1st Mtge., 4-5/8%, due 8/1/89</td>
<td>$50,460.46</td>
<td>$49,149.96</td>
<td>.09%</td>
<td>4.64%</td>
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<tr>
<td>270,000</td>
<td>Appalachian Power Co. 1st Mtge., 4%, due 5/1/88</td>
<td>247,494.22</td>
<td>164,971.42</td>
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<td>4.90</td>
</tr>
<tr>
<td>250,000</td>
<td>Ditto</td>
<td>229,161.32</td>
<td>174,293.82</td>
<td>.19</td>
<td>4.94</td>
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<tr>
<td>150,000</td>
<td>Ohio Power Co. SF Debs., 5-1/8%, due 1/1/96</td>
<td>Ditto</td>
<td>148,803.00</td>
<td>109,287.00</td>
<td>-.52</td>
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<tr>
<td>300,000</td>
<td>Appalachian Power Co. 1st Mtge., 4-3/8%, due 4/1/92</td>
<td>279,517.67</td>
<td>187,192.67</td>
<td>-.13</td>
<td>4.79</td>
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<tr>
<td>88,000</td>
<td>Ohio Power Co. SF Debs., 3-1/8%, due 1/1/96</td>
<td>Ditto</td>
<td>87,297.76</td>
<td>56,531.20</td>
<td>-.53</td>
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<tr>
<td>35,000</td>
<td>New York Tel. Co. Ref. Mtge., 4-1/8%, due 7/1/93</td>
<td>30,471.18</td>
<td>26,325.08</td>
<td>-.05</td>
<td>5.09</td>
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<tr>
<td>25,000</td>
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<td>21,765.12</td>
<td>22,386.12</td>
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<tr>
<td>25,000</td>
<td>Ditto</td>
<td>21,765.12</td>
<td>21,496.12</td>
<td>.18</td>
<td>5.32</td>
</tr>
<tr>
<td>15,000</td>
<td>Ditto</td>
<td>13,059.08</td>
<td>8,604.98</td>
<td>.09</td>
<td>5.23</td>
</tr>
</tbody>
</table>

Corporate Bonds for Corporate Bonds

Pacific Gas & Electric Co. 1st Mtge., 4-1/2%, due 6/1/90

Ditto

Great Northern Railway Co. Gen. Mtge., 2-5/8%, due 1/1/2010

Ditto

Southern Pacific Railroad Co. 1st Mtge., 2-3/4%, due 1/1/96

Ditto

Appalachian Power Co. 1st Mtge., 4%, due 5/1/88

Ditto

Pacific Gas & Electric Co. 1st Mtge. & Coll. Trust, 4-5/8%, due 10/1/94

Ditto

Great Northern Railway Co. Gen. Mtge., 2-5/8%, due 1/1/2010

Ditto

Ohio Power Co. SF Debs., 5-1/8%, due 1/1/96

Ditto

Illinois Bell Tel. Co. 1st Mtge., 3-1/4%, due 7/15/95

Ditto

Delaware Power & Light Co. 1st Mtge. & Coll. Trust, 4-5/8%, due 10/1/94

Ditto

Pacific Gas & Electric Co. 1st Mtge. & Coll. Trust, 4-1/4%, due 6/1/95

Ditto

Great Northern Railway Co. Gen. Mtge., 2-5/8%, due 1/1/2010

Ditto

Ohio Power Co. SF Debs., 5-1/8%, due 1/1/96

Ditto

New York Tel. Co. Ref. Mtge., 4-1/8%, due 7/1/93

Ditto

Illinois Bell Tel. Co. 1st Mtge., 3-1/4%, due 7/15/95

Ditto

Delaware Power & Light Co. 1st Mtge. & Coll. Trust, 4-5/8%, due 10/1/94

Ditto

Pacific Gas & Electric Co. 1st Mtge. & Coll. Trust, 4-1/4%, due 6/1/95

Ditto

Great Northern Railway Co. Gen. Mtge., 2-5/8%, due 1/1/2010

Ditto

Ohio Power Co. SF Debs., 5-1/8%, due 1/1/96

Ditto

New York Tel. Co. Ref. Mtge., 4-1/8%, due 7/1/93
<table>
<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE EXCHANGED</th>
<th>DESCRIPTION</th>
<th>ISSUE RECEIVED</th>
<th>BOOK VALUE</th>
<th>BOOK VALUE</th>
<th>BOOK VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>285,000</td>
<td>Potomac Electric Power Co. 1st Mtge., 5-1/8%, due 4/1/2001</td>
<td>Great Northern Railway Co. Gen. Mtge., 2-5/8%, due 1/1/2010</td>
<td>$ 281,767.80</td>
<td>$ 184,882.05</td>
<td>-60%</td>
<td>4.60%</td>
</tr>
<tr>
<td>75,000</td>
<td>Pacific Tel. &amp; Tel. Co. Debs., 5-1/8%, due 2/1/93</td>
<td>Illinois Bell Tel. Co. 1st Mtge., 4-3/8%, due 3/1/94</td>
<td>70,937.75</td>
<td>64,201.25</td>
<td>-.03</td>
<td>5.53</td>
</tr>
<tr>
<td>50,000</td>
<td>Ditto</td>
<td>Mountain States Tel. &amp; Tel. Co. Debs., 3%, due 8/1/89</td>
<td>47,291.83</td>
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</tr>
<tr>
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<td>Bell Tel. Co. of Pennsylvania Debs., 3-1/4%, due 3/1/96</td>
<td>14,187.55</td>
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<td>-.11</td>
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<tr>
<td>15,000</td>
<td>Ditto</td>
<td>Mountain States Tel. &amp; Tel. Co. Debs., 5-1/2%, due 6/1/2005</td>
<td>16,803.04</td>
<td>15,696.29</td>
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<td>5.20</td>
</tr>
<tr>
<td>30,000</td>
<td>Ditto</td>
<td>Chesapeake &amp; Potomac Tel. Co. of Virginia Debs., 5-5/8%, due 3/1/2007</td>
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<td>31,932.28</td>
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<td>115,000</td>
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<tr>
<td>55,000</td>
<td>Southwestern Public Servo Co. 1st Mtge., 4-1/2%, due 2/1/94</td>
<td>Pacific Gas &amp; Electric Co. 1st &amp; Ref. Mtge., 4-3/8%, due 6/1/94</td>
<td>53,112.30</td>
<td>51,794.50</td>
<td>.06</td>
<td>4.81</td>
</tr>
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</table>
### BOND EXCHANGES
(July, 1972)

<table>
<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE EXCHANGED</th>
<th>DESCRIPTION</th>
<th>ISSUE RECEIVED</th>
<th>BOOK VALUE</th>
<th>BOOK YIELD</th>
<th>NEW BOOK YIELD</th>
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</thead>
<tbody>
<tr>
<td>$ 200,000</td>
<td>New York Tel. Co.</td>
<td>Corporate Bonds for Corporate Bonds</td>
<td>$ 197,373.88</td>
<td>$ 238,651.88</td>
<td>.55%</td>
<td>5.51%</td>
</tr>
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<td>Ditto</td>
<td>Ditto</td>
<td>98,686.94</td>
<td>119,035.94</td>
<td>.57</td>
<td>5.53</td>
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<td>98,686.94</td>
<td>119,035.94</td>
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<td>5.53</td>
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<td>52,505.26</td>
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<td>4.37</td>
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<td>Ditto</td>
<td>52,505.26</td>
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<td>4.37</td>
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<td>Ditto</td>
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<td>285,871.62</td>
<td>.35</td>
<td>4.92</td>
</tr>
<tr>
<td></td>
<td>Ditto</td>
<td>Ditto</td>
<td>270,217.80</td>
<td>285,871.62</td>
<td>.35</td>
<td>4.92</td>
</tr>
<tr>
<td>350,000</td>
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<td>Ditto</td>
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<tr>
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<td>Ditto</td>
<td>Ditto</td>
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<td>296,808.99</td>
<td>-.02</td>
<td>4.28</td>
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<tr>
<td>119,000</td>
<td>Ditto</td>
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<td>122,825.56</td>
<td>127,479.65</td>
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<tr>
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<td>Ditto</td>
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<td>122,825.56</td>
<td>127,479.65</td>
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<td>75,000</td>
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<td>76,587.69</td>
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<tr>
<td></td>
<td>Ditto</td>
<td>Ditto</td>
<td>76,587.69</td>
<td>76,076.94</td>
<td>.17</td>
<td>5.27</td>
</tr>
</tbody>
</table>

**Total Exchange of Corporate Bonds for Corporate Bonds**
(July, 1972)

$ 5,942,000

$ 5,664,329.43

$ 5,185,798.13

(Total Income Improvement)
<table>
<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE</th>
<th>UNIT</th>
<th>TOTAL</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>$36,000</td>
<td>Diamond State Tel. Co., Debs., 4-3/4%, due 4/1/94</td>
<td>$71.982</td>
<td>$25,913.13</td>
<td>7.35%</td>
</tr>
<tr>
<td>$3,000</td>
<td>Pacific Tel. &amp; Tel. Co., Debs., 4-5/8%, due 5/1/2000</td>
<td>69.804</td>
<td>2,094.12</td>
<td>7.14</td>
</tr>
<tr>
<td>$42,000</td>
<td>Great Northern Railway Co., Gen. Mtge., 2-5/8%, due 1/1/2010</td>
<td>37.699</td>
<td>15,833.52</td>
<td>7.75</td>
</tr>
<tr>
<td>$46,000</td>
<td>Texaco Inc., Notes, 4-1/2%, due 12/15/89</td>
<td>71.09</td>
<td>32,701.40</td>
<td>7.50</td>
</tr>
<tr>
<td>$15,000</td>
<td>Florida Power Corp., 1st Mtge., 4-1/4%, due 5/1/92</td>
<td>68.738</td>
<td>10,310.70</td>
<td>7.25</td>
</tr>
<tr>
<td><strong>$142,000</strong></td>
<td><strong>TOTAL BONDS PURCHASED</strong></td>
<td><strong>$86,852.87</strong></td>
<td></td>
<td><strong>7.46%</strong></td>
</tr>
</tbody>
</table>
## BOND SALES AND MATURITIES
(July, 1972)

### PAR VALUE

<table>
<thead>
<tr>
<th>Issue Description</th>
<th>Proceeds</th>
<th>Profit or (Loss)</th>
<th>Current Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Convertible Bonds</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$2,176,000.00</td>
<td>$2,463,600.00</td>
<td>$253,839.78</td>
<td>4.86%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Capital Issued &amp; Proceeds for Proceeds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Houston Lighting &amp; Power Co., Conv. Debs., 5-1/2%, due 2/1/85</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Corporate Bonds</th>
<th>Proceeds</th>
<th>Profit or (Loss)</th>
<th>Current Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,000.00</td>
<td>$754.30</td>
<td>($250.07)</td>
<td>7.15%</td>
</tr>
<tr>
<td>34,000.00</td>
<td>34,000.00</td>
<td>1,233.04</td>
<td>5.375</td>
</tr>
<tr>
<td>11,000.00</td>
<td>9,086.66</td>
<td>(2,266.96)</td>
<td>7.30</td>
</tr>
<tr>
<td>46,000.00</td>
<td>43,840.96</td>
<td>(1,283.99)</td>
<td>5.81</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U. S. Government Obligations</th>
<th>Proceeds</th>
<th>Profit or (Loss)</th>
<th>Current Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>900.21 GNMA, Pass-Through Pool #92, 8%, due 2/15/2001</td>
<td>900.21</td>
<td>(14.40)</td>
<td>8.00</td>
</tr>
<tr>
<td>333.08 GNMA, Pass-Through Pool #114, 8%, due 1/15/2001</td>
<td>333.08</td>
<td>(77.14)</td>
<td>8.00</td>
</tr>
<tr>
<td>817.60 GNMA, Pass-Through Pool #152, 8%, due 2/15/2001</td>
<td>817.60</td>
<td>(183.14)</td>
<td>8.00</td>
</tr>
<tr>
<td>688.95 GNMA, Pass-Through Pool #236, 8%, due 1/15/2001</td>
<td>688.95</td>
<td>(100.10)</td>
<td>8.00</td>
</tr>
<tr>
<td>13,792.96 GNMA, Pass-Through Pool #456, 8%, due 4/15/2001</td>
<td>13,792.96</td>
<td>(1,117.23)</td>
<td>8.00</td>
</tr>
<tr>
<td>8,386.05 GNMA, Pass-Through Pool #650, 8%, due 4/15/2001</td>
<td>8,386.05</td>
<td>(279.26)</td>
<td>8.00</td>
</tr>
<tr>
<td>17,529.30 GNMA, Pass-Through Pool #682, 7-1/2%, due 5/15/2001</td>
<td>17,529.30</td>
<td>(560.94)</td>
<td>7.50</td>
</tr>
<tr>
<td>854.29 GNMA, Pass-Through Pool #832, 6-1/2%, due 1/15/2002</td>
<td>854.29</td>
<td>38.27</td>
<td>6.50</td>
</tr>
<tr>
<td>753.50 GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002</td>
<td>753.50</td>
<td>32.16</td>
<td>6.50</td>
</tr>
<tr>
<td>10,271.86 GNMA, Pass-Through Pool #905, 6-1/2%, due 7/15/2001</td>
<td>10,271.86</td>
<td>610.15</td>
<td>6.50</td>
</tr>
<tr>
<td>449.78 GNMA, Pass-Through Pool #920, 8%, due 9/15/2001</td>
<td>449.78</td>
<td>1.21</td>
<td>8.00</td>
</tr>
<tr>
<td>436.33 GNMA, Pass-Through Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>436.33</td>
<td>28.10</td>
<td>6.50</td>
</tr>
<tr>
<td>1,689.07 GNMA, Pass-Through Pool #1033, 6-1/2%, due 2/15/2002</td>
<td>1,689.07</td>
<td>71.79</td>
<td>6.50</td>
</tr>
<tr>
<td>1,782.68 GNMA, Pass-Through Pool #1102, 6-1/2%, due 1/15/2002</td>
<td>1,782.68</td>
<td>65.96</td>
<td>6.50</td>
</tr>
<tr>
<td>991.59 GNMA, Pass-Through Pool #1157, 6-1/2%, due 1/15/2002</td>
<td>991.59</td>
<td>44.42</td>
<td>6.50</td>
</tr>
<tr>
<td>2,963.31 GNMA, Pass-Through Pool #1252, 6-1/2%, due 1/15/2002</td>
<td>2,963.31</td>
<td>95.71</td>
<td>6.50</td>
</tr>
<tr>
<td>883.01 GNMA, Pass-Through Pool #1306, 6-1/2%, due 1/15/2002</td>
<td>883.01</td>
<td>38.41</td>
<td>6.50</td>
</tr>
<tr>
<td>63,506.97 Total U. S. Government Obligations</td>
<td>63,506.97</td>
<td>(1,306.13)</td>
<td>7.37</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total CORPORATE AND GOVERNMENT BONDS SOLD &amp; MATURED</th>
<th>Proceeds</th>
<th>Profit or (Loss)</th>
<th>Current Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>$109,506.97</td>
<td>$107,347.93</td>
<td>($2,590.12)</td>
<td>6.73%</td>
</tr>
</tbody>
</table>
CASH STATEMENT
July 31, 1972

**RECEIPTS:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Permanent Fund</th>
<th>Available Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>From General Land Office</td>
<td>$1,522,499.62</td>
<td></td>
</tr>
<tr>
<td>From Disposition of Securities:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U. S. Government Obligations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ginnie Mae Principal Payments</td>
<td>63,506.97</td>
<td></td>
</tr>
<tr>
<td>FHA Mortgages</td>
<td>53,246.69</td>
<td></td>
</tr>
<tr>
<td>Corporate Bonds</td>
<td>43,840.96</td>
<td></td>
</tr>
<tr>
<td>Convertible Debentures</td>
<td>2,463,600.00</td>
<td></td>
</tr>
<tr>
<td>Bond Exchanges - Net Receipts</td>
<td>478,531.30</td>
<td></td>
</tr>
<tr>
<td>Interest Collected:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U. S. Government Obligations</td>
<td></td>
<td>$133,601.98</td>
</tr>
<tr>
<td>Ginnie Mae Interest Payments</td>
<td></td>
<td>3,390.63</td>
</tr>
<tr>
<td>FHA Mortgages</td>
<td></td>
<td>971,340.83</td>
</tr>
<tr>
<td>Corporate Bonds</td>
<td></td>
<td>138,812.56</td>
</tr>
<tr>
<td>Convertible Debentures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dividends Collected:</td>
<td></td>
<td>511,155.67</td>
</tr>
<tr>
<td>Common &amp; Preferred Stocks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amortization of Premium</td>
<td>3,006.93</td>
<td></td>
</tr>
<tr>
<td>Accounts Receivable Collected</td>
<td>790,927.77</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL RECEIPTS</strong></td>
<td>5,419,160.24</td>
<td>1,758,301.67</td>
</tr>
<tr>
<td>Cash on Hand 7/1/72</td>
<td>3,012,820.34</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL RECEIPTS AND CASH</strong></td>
<td>$8,431,980.58</td>
<td>$1,758,301.67</td>
</tr>
</tbody>
</table>
CASH STATEMENT
July 31, 1972
(Continued)

<table>
<thead>
<tr>
<th>Securities Acquired:</th>
<th>Permanent Fund</th>
<th>Available Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate Bonds</td>
<td>$ 86,852.87</td>
<td></td>
</tr>
<tr>
<td>Common Stocks</td>
<td>7,515,025.70</td>
<td>$1,758,301.67</td>
</tr>
<tr>
<td>Amortization of Discount</td>
<td>23,137.68</td>
<td></td>
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<tr>
<td>To Clear Out Available Fund</td>
<td></td>
<td>$1,758,301.67</td>
</tr>
<tr>
<td>TOTAL DISBURSEMENTS</td>
<td>7,627,016.25</td>
<td>$1,758,301.67</td>
</tr>
</tbody>
</table>

Cash and Receivables 7/31/72:

<table>
<thead>
<tr>
<th></th>
<th>Permanent Fund</th>
<th>Available Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash on Hand</td>
<td>804,453.58</td>
<td></td>
</tr>
<tr>
<td>Accounts Receivable</td>
<td>510.75</td>
<td></td>
</tr>
<tr>
<td>TOTAL CASH AND RECEIVABLES</td>
<td>804,964.33</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL DISBURSEMENTS, CASH AND RECEIVABLES 7/31/72 | $8,431,980.58 |
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

<table>
<thead>
<tr>
<th>SECURITY</th>
<th>BOOK VALUE 8/31/71</th>
<th>BOOK YIELD 8/31/71</th>
<th>BOOK VALUE 8/31/72</th>
<th>BOOK YIELD 8/31/72</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DEBT SECURITIES:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U. S. Government Obligations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treasury Bonds</td>
<td>$107,723,291.67</td>
<td>4.26%</td>
<td>$105,487,849.82</td>
<td>4.33%</td>
</tr>
<tr>
<td>Government Agencies</td>
<td>5,438,875.36</td>
<td>6.81%</td>
<td>4,723,364.12</td>
<td>6.91%</td>
</tr>
<tr>
<td>FHA Mortgages</td>
<td>15,622,444.51</td>
<td>6.83%</td>
<td>15,592,280.12</td>
<td>7.01%</td>
</tr>
<tr>
<td>TOTAL - U. S. Government</td>
<td>$128,784,611.54</td>
<td>4.68%</td>
<td>$145,803,584.06</td>
<td>5.05%</td>
</tr>
<tr>
<td>Obligations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corporate Bonds</td>
<td>234,360,279.62</td>
<td>4.91%</td>
<td>233,763,862.43</td>
<td>4.93%</td>
</tr>
<tr>
<td>TOTAL - DEBT SECURITIES</td>
<td>$363,144,891.16</td>
<td>4.83%</td>
<td>$379,567,456.49</td>
<td>4.98%</td>
</tr>
<tr>
<td><strong>EQUITY SECURITIES:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Convertible Debentures</td>
<td>14,933,307.87</td>
<td>4.97%</td>
<td>10,499,040.32</td>
<td>5.24%</td>
</tr>
<tr>
<td>Convertible Preferred Stocks</td>
<td>15,848,192.03</td>
<td>4.16%</td>
<td>11,700,005.30</td>
<td>4.10%</td>
</tr>
<tr>
<td>Common Stocks</td>
<td>184,688,881.95</td>
<td>4.30%</td>
<td>225,199,817.56</td>
<td>4.35%</td>
</tr>
<tr>
<td>TOTAL - EQUITY SECURITIES</td>
<td>$215,470,381.85</td>
<td>4.34%</td>
<td>$247,398,863.18</td>
<td>4.38%</td>
</tr>
<tr>
<td><strong>TOTAL - LONG TERM INVESTMENTS</strong></td>
<td>$578,615,273.01</td>
<td>4.65%</td>
<td>$626,966,219.67</td>
<td>4.74%</td>
</tr>
<tr>
<td><strong>CASH &amp; EQUIVALENT:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial Paper</td>
<td>15,750,000.00</td>
<td>5.45%</td>
<td>3,100,000.00</td>
<td>4.50%</td>
</tr>
<tr>
<td>Cash</td>
<td>483,744.55</td>
<td>4.85%</td>
<td>508,840.32</td>
<td></td>
</tr>
<tr>
<td>TOTAL - CASH &amp; EQUIVALENT</td>
<td>$16,233,744.55</td>
<td></td>
<td>$3,608,840.32</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL - SECURITIES, CASH &amp; EQUIVALENT</strong></td>
<td>$594,849,017.56</td>
<td>4.67%</td>
<td>$630,575,059.99</td>
<td>4.73%</td>
</tr>
</tbody>
</table>
### SUMMARY OF TRANSACTIONS
**August 31, 1972**

<table>
<thead>
<tr>
<th>Purchases:</th>
<th>Cost</th>
<th>Current Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stocks</td>
<td>$4,148,186.73</td>
<td>--</td>
</tr>
<tr>
<td>(Acquired through Conversion of Convertible Preferred)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL LONG TERM PURCHASES</strong></td>
<td>$4,148,186.73</td>
<td>--</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gain</th>
<th>Proceeds</th>
<th>(Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>$3,915.10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sales:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>U. S. Government Obligations--</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA Principal Payments</td>
<td>$114,249.90</td>
<td>($3,915.10)</td>
<td>7.43%</td>
</tr>
<tr>
<td>FHA Mortgages</td>
<td>126,042.35</td>
<td>--</td>
<td>6.86</td>
</tr>
<tr>
<td>Convertible Preferred Stocks</td>
<td>$4,148,186.73</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>(Converted into Common)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL LONG TERM SALES</strong></td>
<td>$4,388,478.98</td>
<td>($3,915.10)</td>
<td>7.13%</td>
</tr>
</tbody>
</table>

---

### PERMANENT UNIVERSITY FUND BOOK VALUE

<table>
<thead>
<tr>
<th>July 31, 1972 Balance</th>
<th>$627,958,820.58</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additions (August, 1972)</td>
<td></td>
</tr>
<tr>
<td>Realized Net Gain or (Loss) on Security Transactions</td>
<td>($3,915.10)</td>
</tr>
<tr>
<td>From General Land Office</td>
<td>2,620,154.51</td>
</tr>
<tr>
<td>August 31, 1972 Balance</td>
<td>$630,575,059.99</td>
</tr>
</tbody>
</table>
### INVESTMENTS ACQUIRED

<table>
<thead>
<tr>
<th>Par Value or No. Shares</th>
<th>Description</th>
<th>Price</th>
<th>Total Net Cost</th>
<th>Current Yield</th>
</tr>
</thead>
</table>
| 100,005 Shs.            | **COMMON STOCKS:**
|                         | International Telephone & Telegraph Corp.           | --     | $4,148,186.73  | --            |
|                         | (Conversion of Cumulative Preferred Stock $2.25 Convertible Series N into Common Stock, 1-for-1.25 basis) |
|                         | **TOTAL - LONG TERM INVESTMENTS**                   |        | $4,148,186.73  | --            |
|                         | **COMMERCIAL PAPER:**
|                         | Ford Motor Credit Company                           | $100.00| 3,100,000.00   | 4.53%         |
|                         | **TOTAL - INVESTMENTS ACQUIRED**                    |        | $7,248,186.73  |               |
| $3,100,000              |                                                     |        |                |               |

### INVESTMENTS DISPOSED OF

<table>
<thead>
<tr>
<th>Par Value or No. Shares</th>
<th>Description</th>
<th>Price</th>
<th>Total Net Proceeds</th>
<th>Gain or (Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>$114,249.90</td>
<td><strong>U. S. GOVERNMENT OBLIGATIONS:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GNMA, Various Pools</td>
<td>$100.00</td>
<td>114,249.90</td>
<td>($3,915.10)</td>
<td>7.43%</td>
</tr>
<tr>
<td></td>
<td>FHA Mortgages</td>
<td>100.00</td>
<td>126,042.35</td>
<td>0</td>
<td>6.86</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL - U. S. Government Obligations</strong></td>
<td></td>
<td>240,292.23</td>
<td>($3,915.10)</td>
<td>7.13</td>
</tr>
<tr>
<td>80,004 Shs.</td>
<td><strong>CONVERTIBLE PREFERRED STOCKS:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>International Telephone &amp; Telegraph Corp.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cumulative Preferred Stock $2.25 Convertible Series N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Converted into Common Stock, 1-for-1.25 basis)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL - LONG TERM INVESTMENTS</strong></td>
<td></td>
<td>4,388,478.98</td>
<td>($3,915.10)</td>
<td>7.13</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL - INVESTMENTS DISPOSED OF</strong></td>
<td></td>
<td>4,388,478.98</td>
<td>($3,915.10)</td>
<td>7.13%</td>
</tr>
</tbody>
</table>
## Bond Sales and Maturities

**U.S. Government Obligations**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue</th>
<th>Proceeds</th>
<th>Profit or (Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>$4,509.42</td>
<td>GNMA, Pass-Through Pool #92, 8%, due 2/15/2001</td>
<td>$4,509.42</td>
<td>($72.15)</td>
<td>8.00%</td>
</tr>
<tr>
<td>335.45</td>
<td>GNMA, Pass-Through Pool #114, 8%, due 1/15/2001</td>
<td>335.45</td>
<td>(77.69)</td>
<td>8.00%</td>
</tr>
<tr>
<td>823.40</td>
<td>GNMA, Pass-Through Pool #152, 8%, due 2/15/2001</td>
<td>823.40</td>
<td>(183.37)</td>
<td>8.00%</td>
</tr>
<tr>
<td>13,902.84</td>
<td>GNMA, Pass-Through Pool #236, 8%, due 1/15/2001</td>
<td>13,902.84</td>
<td>(2,018.69)</td>
<td>8.00%</td>
</tr>
<tr>
<td>19,356.68</td>
<td>GNMA, Pass-Through Pool #456, 8%, due 4/15/2001</td>
<td>19,356.68</td>
<td>(1,567.89)</td>
<td>8.00%</td>
</tr>
<tr>
<td>7,312.78</td>
<td>GNMA, Pass-Through Pool #650, 8%, due 4/15/2001</td>
<td>7,312.78</td>
<td>(243.52)</td>
<td>8.00%</td>
</tr>
<tr>
<td>35,950.60</td>
<td>GNMA, Pass-Through Pool #682, 7-1/2%, due 5/15/2001</td>
<td>35,950.60</td>
<td>(1,150.42)</td>
<td>7.50%</td>
</tr>
<tr>
<td>11,157.90</td>
<td>GNMA, Pass-Through Pool #832, 6-1/2%, due 1/15/2002</td>
<td>11,157.90</td>
<td>499.87</td>
<td>6.50%</td>
</tr>
<tr>
<td>3,178.80</td>
<td>GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002</td>
<td>3,178.80</td>
<td>135.10</td>
<td>6.50%</td>
</tr>
<tr>
<td>4,886.37</td>
<td>GNMA, Pass-Through Pool #905, 6-1/2%, due 7/15/2001</td>
<td>4,886.37</td>
<td>290.25</td>
<td>6.50%</td>
</tr>
<tr>
<td>452.97</td>
<td>GNMA, Pass-Through Pool #929, 8%, due 9/15/2001</td>
<td>452.97</td>
<td>1.22</td>
<td>8.00%</td>
</tr>
<tr>
<td>438.86</td>
<td>GNMA, Pass-Through Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>438.86</td>
<td>28.26</td>
<td>6.50%</td>
</tr>
<tr>
<td>1,698.92</td>
<td>GNMA, Pass-Through Pool #1033, 6-1/2%, due 2/15/2002</td>
<td>1,698.92</td>
<td>71.86</td>
<td>6.50%</td>
</tr>
<tr>
<td>899.14</td>
<td>GNMA, Pass-Through Pool #1105, 6-1/2%, due 1/15/2002</td>
<td>899.14</td>
<td>33.18</td>
<td>6.50%</td>
</tr>
<tr>
<td>997.38</td>
<td>GNMA, Pass-Through Pool #1157, 6-1/2%, due 1/15/2002</td>
<td>997.38</td>
<td>44.68</td>
<td>6.50%</td>
</tr>
<tr>
<td>6,155.20</td>
<td>GNMA, Pass-Through Pool #1252, 6-1/2%, due 1/15/2002</td>
<td>6,155.20</td>
<td>198.81</td>
<td>6.50%</td>
</tr>
<tr>
<td>2,193.19</td>
<td>GNMA, Pass-Through Pool #1306, 6-1/2%, due 1/15/2002</td>
<td>2,193.19</td>
<td>95.40</td>
<td>6.50%</td>
</tr>
</tbody>
</table>

**Total Bonds Sold and Matured**

| $114,249.90 | $114,249.90 | ($3,915.10) | 7.43% |

**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

<table>
<thead>
<tr>
<th>Permanent Fund</th>
<th>Available Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RECEIPTS:</strong></td>
<td></td>
</tr>
<tr>
<td>From General Land Office</td>
<td>$2,620,154.51</td>
</tr>
<tr>
<td>From Disposition of Securities:</td>
<td></td>
</tr>
<tr>
<td>U. S. Government Obligations</td>
<td></td>
</tr>
<tr>
<td>GNMA Principal Payments</td>
<td>$114,249.90</td>
</tr>
<tr>
<td>FHA Mortgages</td>
<td>$126,042.35</td>
</tr>
<tr>
<td>Convertible Preferred Stocks</td>
<td>$4,148,186.73</td>
</tr>
<tr>
<td>Interest Collected:</td>
<td></td>
</tr>
<tr>
<td>U. S. Bonds</td>
<td>$1,912,364.43</td>
</tr>
<tr>
<td>U. S. Government Obligations</td>
<td></td>
</tr>
<tr>
<td>GNMA Interest Payments</td>
<td>$125,999.58</td>
</tr>
<tr>
<td>FHA Mortgages</td>
<td>$173,663.44</td>
</tr>
<tr>
<td>Corporate Bonds</td>
<td>$791,453.64</td>
</tr>
<tr>
<td>Dividends Collected:</td>
<td></td>
</tr>
<tr>
<td>Common &amp; Preferred Stocks</td>
<td>$476,258.42</td>
</tr>
<tr>
<td>Amortization of Premium</td>
<td>$53,215.12</td>
</tr>
<tr>
<td>Accounts Receivable Collected</td>
<td>$510.75</td>
</tr>
<tr>
<td><strong>TOTAL RECEIPTS</strong></td>
<td>$7,062,359.36</td>
</tr>
<tr>
<td>Cash on Hand 8/1/72</td>
<td>$804,453.38</td>
</tr>
<tr>
<td><strong>TOTAL RECEIPTS AND CASH</strong></td>
<td>$7,866,812.94</td>
</tr>
</tbody>
</table>
### CASH STATEMENT
August 31, 1972
(Continued)

<table>
<thead>
<tr>
<th>Disbursements</th>
<th>Permanent Fund</th>
<th>Available Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Securities Acquired:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Stocks</td>
<td>$4,148,186.73</td>
<td></td>
</tr>
<tr>
<td>Commercial Paper</td>
<td>3,100,000.00</td>
<td></td>
</tr>
<tr>
<td>Amortization of Discount</td>
<td>109,785.89</td>
<td></td>
</tr>
<tr>
<td>To Clear Out Available Fund</td>
<td></td>
<td>$3,479,741.51</td>
</tr>
<tr>
<td><strong>Total Disbursements</strong></td>
<td>7,357,972.62</td>
<td>83,479,741.51</td>
</tr>
<tr>
<td>Cash on Hand 8/31/72</td>
<td>508,840.32</td>
<td></td>
</tr>
<tr>
<td><strong>Total Disbursements and Cash 8/31/72</strong></td>
<td>$7,866,812.94</td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Description and Fund</th>
<th>Total Net Cost</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,361,000</td>
<td>Common Trust Fund</td>
<td>$990,660.99</td>
<td>7.35%</td>
</tr>
<tr>
<td>7,000</td>
<td>Anderson-Mayfair Mortgage Retirement Fund - AH</td>
<td>6,378.89</td>
<td>6.90</td>
</tr>
<tr>
<td>TOTAL - Corporate Bonds</td>
<td></td>
<td>997,039.88</td>
<td>7.35%</td>
</tr>
</tbody>
</table>

COMMON STOCKS:
See Stock Purchase Schedule for Detail

<table>
<thead>
<tr>
<th>Description and Fund</th>
<th>Total Net Cost</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Trust Fund</td>
<td>530,007.80</td>
<td>4.10%</td>
</tr>
</tbody>
</table>

TOTAL - LONG TERM INVESTMENTS | $1,527,047.68 |

BONDS EXCHANGED IN:
See Bond Exchange Schedule for Detail

<table>
<thead>
<tr>
<th>Description and Fund</th>
<th>Total Net Cost</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Trust Fund</td>
<td>41,506.22</td>
<td>5.81%</td>
</tr>
</tbody>
</table>

SHORT TERM PAPER:

<table>
<thead>
<tr>
<th>Description and Fund</th>
<th>Total Net Cost</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMC 4-5/8% Note, due 8/31/72 (Common Trust Fund)</td>
<td>900,000.00</td>
<td>4.659118</td>
</tr>
<tr>
<td>FMC 4-5/8% Note, due 8/31/72 (Common Trust Fund)</td>
<td>1,100,000.00</td>
<td>4.656105</td>
</tr>
<tr>
<td>FMC 4-5/8% Note, due 8/31/72 (Archer M. Huntington Museum Fund)</td>
<td>100,000.00</td>
<td>4.655503</td>
</tr>
<tr>
<td>FMC 4-5/8% Note, due 8/31/72 ($120,000 - Common Trust Fund - Undistributed Receipts 10,000 - Josephine Clardy Fox Estate Fund - UTEP)</td>
<td>130,000.00</td>
<td>4.655503</td>
</tr>
<tr>
<td>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)</td>
<td>103,000.00</td>
<td>4.39101</td>
</tr>
<tr>
<td>GMAC 4-5/8% Note, due 8/31/72 (Common Trust Fund)</td>
<td>1,150,000.00</td>
<td>4.656</td>
</tr>
</tbody>
</table>
### INVESTMENTS DISPOSED OF

<table>
<thead>
<tr>
<th>Description and Fund</th>
<th>Total Net Proceeds</th>
<th>Gain or (Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U. S. TREASURY SECURITIES:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>See Bond Sales and Redemptions Schedule for Detail</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Miss Eloise Alexander Memorial Fund - SAMS</td>
<td>$34,975.00</td>
<td>$856.25</td>
<td>5.78%</td>
</tr>
<tr>
<td>Hospital Refunding Bonds, Dated 1-1-51 - U.T. Austin</td>
<td>83,808.75</td>
<td>(454.79)</td>
<td>6.08%</td>
</tr>
<tr>
<td><strong>TOTAL - U. S. Treasury Securities</strong></td>
<td>118,783.75</td>
<td>401.46</td>
<td>5.99%</td>
</tr>
<tr>
<td><strong>U. S. GOVERNMENT OBLIGATIONS:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>See Bond Sales and Maturities Schedule for Detail</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Trust Fund</td>
<td>6,493.33</td>
<td>(256.72)</td>
<td>7.86%</td>
</tr>
<tr>
<td>The William Buchanan Chair in Internal Medicine - DMS</td>
<td>931.88</td>
<td>(12.85)</td>
<td>7.92%</td>
</tr>
<tr>
<td>Reserve for Possible Fire Losses - Temporary Student Housing Units</td>
<td>60.03</td>
<td>0.76</td>
<td>6.50%</td>
</tr>
<tr>
<td>Texas Union Building Fund</td>
<td>140.21</td>
<td>12.87</td>
<td>6.50%</td>
</tr>
<tr>
<td>Student Property Deposit Scholarship Fund</td>
<td>547.49</td>
<td>(1.01)</td>
<td>7.59%</td>
</tr>
<tr>
<td>Student Property Deposit Scholarship Fund - Temporary</td>
<td>359.08</td>
<td>11.21</td>
<td>6.50%</td>
</tr>
<tr>
<td>U.T. System - General Tuition Revenue Bonds, Series 1971 - Reserve Fund</td>
<td>513.04</td>
<td>25.30</td>
<td>6.50%</td>
</tr>
<tr>
<td>U.T. Austin - Dormitory Revenue Bond Fund, Series 1954 - Reserve Fund</td>
<td>696.92</td>
<td>(16.24)</td>
<td>8.00%</td>
</tr>
<tr>
<td>U.T. Austin - Dormitory Revenue Bonds Fund, Series 1956 - Reserve Fund</td>
<td>206.91</td>
<td>(8.21)</td>
<td>8.00%</td>
</tr>
<tr>
<td>U.T. Austin - Student Housing Revenue Bonds of 1963 - Reserve Fund</td>
<td>772.03</td>
<td>(4.87)</td>
<td>8.00%</td>
</tr>
<tr>
<td>U.T. Austin - Housing System Revenue Bonds, Series 1967 - Reserve Fund</td>
<td>1,286.02</td>
<td>(9.47)</td>
<td>7.87%</td>
</tr>
<tr>
<td>U.T. Austin - Building Revenue Bonds, Series 1969 - Utility Plant - Student Fee Revenue Bonds - Reserve Fund</td>
<td>995.30</td>
<td>(53.02)</td>
<td>8.00%</td>
</tr>
<tr>
<td>U.T. Austin - Student Union Revenue Bonds, Series 1958 - Reserve Fund</td>
<td>122.59</td>
<td>(0.0)</td>
<td>8.00%</td>
</tr>
<tr>
<td>Galveston Medical Branch - Dormitory Revenue Bonds, Series 1955 - Reserve Fund</td>
<td>1,227.36</td>
<td>0.10</td>
<td>7.79%</td>
</tr>
<tr>
<td>U.T. El Paso - Student Housing Revenue Bonds of 1961 - Reserve Fund</td>
<td>26.09</td>
<td>0.78</td>
<td>6.50%</td>
</tr>
</tbody>
</table>

L & I Report - 24
INVESTMENTS DISPOSED OF
(Continued)

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Description and Fund</th>
<th>Total Net Proceeds</th>
<th>Gain or (Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>$418.02</td>
<td>U.T. El Paso - Student Union Building Revenue Bonds, Series A and B, 1967 - Reserve Fund</td>
<td>$418.02 ($1.78)</td>
<td>8.00%</td>
<td></td>
</tr>
<tr>
<td>68.94</td>
<td>U.T. El Paso - Combined Fee Revenue Bonds, Series 1970 &amp; 1971 - Reserve Fund</td>
<td>68.94 2.71</td>
<td>7.25</td>
<td></td>
</tr>
<tr>
<td>392.28</td>
<td>U.T. Arlington - Student Center Fee Bonds, Series 1960 - Reserve Fund</td>
<td>392.28 -0-</td>
<td>8.00</td>
<td></td>
</tr>
<tr>
<td>404.54</td>
<td>U.T. Arlington - Gymnasium Fee Bonds - Series 1961 - Reserve Fund</td>
<td>404.54 -0-</td>
<td>8.00</td>
<td></td>
</tr>
<tr>
<td>242.53</td>
<td>U.T. Arlington - Student Fee Revenue Bonds - Series 1964, Series 1966, and Series 1968 - Reserve Fund</td>
<td>242.53 (0.89)</td>
<td>7.68</td>
<td></td>
</tr>
<tr>
<td>TOTAL - U.S. Government Obligations</td>
<td></td>
<td>17,605.68 (265.17)</td>
<td>7.73%</td>
<td></td>
</tr>
</tbody>
</table>

CORPORATE BONDS:
See Bond Sales and Redemption Schedule for Detail

$3,555,000
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Description and Fund</th>
<th>Total Net Proceeds</th>
<th>Gain or (Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000</td>
<td>Common Trust Fund</td>
<td>$2,906,826.84 ($73,853.72)</td>
<td>7.38%</td>
<td></td>
</tr>
<tr>
<td>100,000</td>
<td>Josephine Clardy Fox Estate Fund - UTEP</td>
<td>10,000.00 -0-</td>
<td>6.00</td>
<td></td>
</tr>
<tr>
<td>2,083.33</td>
<td>Archer M. Huntington Museum Fund</td>
<td>100,000.00 -0-</td>
<td>6.00</td>
<td></td>
</tr>
<tr>
<td>2,083.33</td>
<td>Jack G. Taylor Endowment Fund</td>
<td>2,083.33 -0-</td>
<td>8.00</td>
<td></td>
</tr>
<tr>
<td>TOTAL - Corporate Bonds</td>
<td></td>
<td>3,018,910.17 (73,853.72)</td>
<td>7.33%</td>
<td></td>
</tr>
</tbody>
</table>

CONVERTIBLE BONDS:
See Bond Sales and Redemption Schedule for Detail

128,000
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Description and Fund</th>
<th>Total Net Proceeds</th>
<th>Gain or (Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>128,000</td>
<td>Common Trust Fund</td>
<td>$145,920.00 1,725.00</td>
<td>4.82%</td>
<td></td>
</tr>
</tbody>
</table>

COMMON STOCKS:
See Stock Sales Schedule for Detail

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Description and Fund</th>
<th>Total Net Proceeds</th>
<th>Gain or (Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>79,012.50</td>
<td>Common Trust Fund</td>
<td>79,012.50 (2,187.50)</td>
<td>1.24%</td>
<td></td>
</tr>
<tr>
<td>17,371.60</td>
<td>Walter Prescott Webb Symposium Fund</td>
<td>17,371.60 (4,628.40)</td>
<td>0.27</td>
<td></td>
</tr>
<tr>
<td>TOTAL - Common Stocks</td>
<td></td>
<td>96,384.10 (6,815.90)</td>
<td>1.07%</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL - LONG TERM INVESTMENTS SOLD
$3,297,603.70 ($78,808.33)
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Description and Fund</th>
<th>Total Net Proceeds</th>
<th>Gain or (Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 50,000</td>
<td>Common Trust Fund</td>
<td>$ 45,191.22</td>
<td>--</td>
<td>5.66%</td>
</tr>
<tr>
<td></td>
<td><strong>BONDS EXCHANGED OUT:</strong> See Bond Exchange Schedule for Detail</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>900,000</td>
<td>FMC 4-1/8% Note, due 8/31/72 (Common Trust Fund - Prepaid on 7/20/72)</td>
<td>900,000.00</td>
<td>--</td>
<td>4.659118</td>
</tr>
<tr>
<td>60,000</td>
<td>SRAC 5-3/8% Note, due 7/14/72 (Lila Belle Etter Fund)</td>
<td>60,000.00</td>
<td>--</td>
<td>5.60078</td>
</tr>
</tbody>
</table>
### SUMMARY OF TRANSACTIONS
THE UNIVERSITY OF TEXAS SYSTEM COMMON TRUST FUND
July, 1972

#### Purchases:

<table>
<thead>
<tr>
<th>Securities</th>
<th>Cost</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate Bonds</td>
<td>$990,660.99</td>
<td>7.33%</td>
</tr>
<tr>
<td>Common Stocks</td>
<td>530,007.80</td>
<td>4.10</td>
</tr>
<tr>
<td><strong>TOTAL LONG TERM PURCHASES</strong></td>
<td><strong>$1,520,668.79</strong></td>
<td><strong>6.22%</strong></td>
</tr>
</tbody>
</table>

#### Sales and Maturities:

<table>
<thead>
<tr>
<th>Securities</th>
<th>Proceeds</th>
<th>(Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>U. S. Government Obligations</td>
<td>$6,493.33</td>
<td>(256.72)</td>
<td>7.86%</td>
</tr>
<tr>
<td>Corporate Bonds</td>
<td>2,906,826.84</td>
<td>(73,853.72)</td>
<td>7.38%</td>
</tr>
<tr>
<td>Convertible Bonds</td>
<td>145,920.00</td>
<td>1,725.00</td>
<td>4.82%</td>
</tr>
<tr>
<td>Common Stocks</td>
<td>79,012.50</td>
<td>(2,187.50)</td>
<td>1.24%</td>
</tr>
<tr>
<td><strong>TOTAL LONG TERM SALES</strong></td>
<td><strong>$3,138,252.67</strong></td>
<td><strong>($74,572.94)</strong></td>
<td><strong>7.11%</strong></td>
</tr>
</tbody>
</table>

#### BOND EXCHANGES

<table>
<thead>
<tr>
<th>Par Exchanged</th>
<th>Increase in Annual Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>$50,000</td>
<td>$120.85</td>
</tr>
</tbody>
</table>

L & I Report - 27
# THE UNIVERSITY OF TEXAS SYSTEM COMMON TRUST FUND

( July, 1972 )

## BOND EXCHANGES

<table>
<thead>
<tr>
<th>Description</th>
<th>Book Value</th>
<th>Yield</th>
<th>New Book Value</th>
<th>Increase</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Illinois Pub. Serv. Co. Pacific Gas &amp; Electric Co. 1st Mtge., 4-3/4%, due 1/1/89</td>
<td>$45,191.22</td>
<td>.15%</td>
<td>$41,506.22</td>
<td>5.81%</td>
<td></td>
</tr>
</tbody>
</table>

*Total Income Improvement, including income from investment of takeout (payup) on exchange.

## STOCK SALES

<table>
<thead>
<tr>
<th>No. of Shares Sold</th>
<th>Issue</th>
<th>Net Sales Proceeds</th>
<th>Profit or (Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>700 Shs.</td>
<td>Sears, Roebuck &amp; Company Common Stock</td>
<td>$79,012.50</td>
<td>($2,187.50)</td>
<td>1.24%</td>
</tr>
</tbody>
</table>

## STOCK PURCHASES

<table>
<thead>
<tr>
<th>No. of Shares Purchased</th>
<th>Issue</th>
<th>Unit Cost</th>
<th>Total Cost</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,000 Shs.</td>
<td>Lone Star Gas Company Common Stock</td>
<td>$28.854</td>
<td>$173,125.00</td>
<td>4.71%</td>
</tr>
<tr>
<td>10,000 &quot;</td>
<td>Safeway Stores, Inc. Common Stock</td>
<td>35.688</td>
<td>$530,007.80</td>
<td>4.10%</td>
</tr>
<tr>
<td>PAR VALUE</td>
<td>ISSUE</td>
<td>UNIT COST</td>
<td>TOTAL</td>
<td>YIELD</td>
</tr>
<tr>
<td>----------</td>
<td>-------</td>
<td>-----------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>$44,000</td>
<td>Alabama Power Co., 1st Mtge., 3-7/8%, due 1/1/88</td>
<td>$67.125</td>
<td>$29,355.00</td>
<td>7.50%</td>
</tr>
<tr>
<td>15,000</td>
<td>Baltimore Gas &amp; Electric Co., SF Debts., 4-7/8%, due 6/15/86</td>
<td>77.85</td>
<td>1,177.50</td>
<td>7.45</td>
</tr>
<tr>
<td>50,000</td>
<td>Baltimore Gas &amp; Electric Co., SF Debts., 4-5/8%, due 8/1/90</td>
<td>72.606</td>
<td>36,303.00</td>
<td>7.40</td>
</tr>
<tr>
<td>10,000</td>
<td>Central Illinois Light Co., 1st Mtge., 4-7/8%, due 3/1/90</td>
<td>74.529</td>
<td>7,452.90</td>
<td>7.50</td>
</tr>
<tr>
<td>50,000</td>
<td>Columbus &amp; Southern Ohio Electric Co., 1st Mtge., 4-1/8%, due 1/1/88</td>
<td>69.743</td>
<td>34,871.50</td>
<td>7.45</td>
</tr>
<tr>
<td>50,000</td>
<td>Commonwealth Edison Co., 1st Mtge., 4-1/4%, due 3/1/87</td>
<td>72.45</td>
<td>36,225.00</td>
<td>7.35</td>
</tr>
<tr>
<td>40,000</td>
<td>Florida Power Corp., 1st Mtge., 4-1/8%, due 7/1/86</td>
<td>69.957</td>
<td>27,982.80</td>
<td>7.35</td>
</tr>
<tr>
<td>50,000</td>
<td>Florida Power &amp; Light Co., 1st Mtge., 4-5/8%, due 5/1/87</td>
<td>74.52</td>
<td>37,260.00</td>
<td>7.50</td>
</tr>
<tr>
<td>64,000</td>
<td>Georgia Power Co., 1st Mtge., 5-1/4%, due 6/1/87</td>
<td>80.304</td>
<td>51,394.56</td>
<td>7.46</td>
</tr>
<tr>
<td>50,000</td>
<td>Public Service Co. of Colorado, 1st Mtge., 4-3/8%, due 5/1/87</td>
<td>72.67</td>
<td>36,335.00</td>
<td>7.45</td>
</tr>
<tr>
<td>42,000</td>
<td>Union Electric Co., 1st Mtge., 4-3/8%, due 3/1/88</td>
<td>71.674</td>
<td>30,103.18</td>
<td>7.47</td>
</tr>
<tr>
<td>56,000</td>
<td>Union Electric Co., 1st Mtge., 4-3/4%, due 9/1/90</td>
<td>72.91</td>
<td>40,829.88</td>
<td>7.51</td>
</tr>
<tr>
<td>100,000</td>
<td>Consolidated Natural Gas Co., Debts., 4-3/8%, due 8/1/83</td>
<td>78.691</td>
<td>78,691.00</td>
<td>7.20</td>
</tr>
<tr>
<td>150,000</td>
<td>Niagara Mohawk Power Corp., Gen. Mtge., 2-3/4%, due 1/1/80</td>
<td>74.59</td>
<td>111,865.00</td>
<td>7.20</td>
</tr>
<tr>
<td>130,000</td>
<td>Mississippi Power &amp; Light Co., 1st Mtge., due 3/1/83</td>
<td>71.875</td>
<td>93,437.50</td>
<td>7.50</td>
</tr>
<tr>
<td>10,000</td>
<td>Northern Illinois Gas Co., 1st Mtge., 5%, due 6/1/84</td>
<td>80.586</td>
<td>8,054.60</td>
<td>7.50</td>
</tr>
<tr>
<td>10,000</td>
<td>Ohio Edison Co., 1st Mtge., 4-1/2%, due 4/1/89</td>
<td>71.665</td>
<td>7,166.50</td>
<td>7.50</td>
</tr>
<tr>
<td>10,000</td>
<td>Florida Power Corp., 1st Mtge., 4-5/8%, due 4/1/95</td>
<td>69.25</td>
<td>6,925.00</td>
<td>7.45</td>
</tr>
<tr>
<td>15,000</td>
<td>Niagara Mohawk Power Corp., Gen. Mtge., 4-1/2%, due 11/1/91</td>
<td>68.45</td>
<td>10,267.50</td>
<td>7.65</td>
</tr>
<tr>
<td>27,000</td>
<td>Northern Illinois Gas Co., 1st Mtge., 5%, due 6/1/84</td>
<td>80.87</td>
<td>21,834.90</td>
<td>7.45</td>
</tr>
<tr>
<td>35,000</td>
<td>Pacific Gas &amp; Elec. Co., 1st &amp; Ref. Mtge., 5-1/2%, due 6/1/99</td>
<td>77.00</td>
<td>26,830.00</td>
<td>7.50</td>
</tr>
<tr>
<td>102,000</td>
<td>Southern Electric Generating Co., 1st Mtge., 5-1/4%, Series 1959, due 6/1/92</td>
<td>74.173</td>
<td>73,656.46</td>
<td>7.00</td>
</tr>
<tr>
<td>8,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55,000</td>
<td>Illinois Bell Tel. Co., 1st Mtge., 3-1/8%, due 4/1/84</td>
<td>74.852</td>
<td>5,988.16</td>
<td>7.75</td>
</tr>
<tr>
<td>17,000</td>
<td>Houston Lighting &amp; Power Co., 1st Mtge., 3-1/4%, due 3/1/86</td>
<td>68.130</td>
<td>37,471.50</td>
<td>7.20</td>
</tr>
<tr>
<td>75,000</td>
<td>Pacific Tel. &amp; Tel. Co., Debts., 2-3/4%, due 12/1/85</td>
<td>65.41</td>
<td>11,119.70</td>
<td>7.30</td>
</tr>
<tr>
<td>15,000</td>
<td>Texas Electric Service Co., SF Debts., 5-1/4%, due 2/1/85</td>
<td>62.52</td>
<td>46,892.25</td>
<td>7.15</td>
</tr>
<tr>
<td>25,000</td>
<td>Florida Power &amp; Light Co., 1st Mtge., 4-3/4%, due 11/1/84</td>
<td>65.58</td>
<td>16,395.00</td>
<td>7.45</td>
</tr>
<tr>
<td>25,000</td>
<td>Northern States Power Co. (Minn.), 1st Mtge., 4-1/4%, due 9/1/86</td>
<td>72.375</td>
<td>18,093.75</td>
<td>7.45</td>
</tr>
<tr>
<td>31,000</td>
<td>Georgia Power Co., 1st Mtge., 4-1/8%, due 3/1/88</td>
<td>69.25</td>
<td>21,667.50</td>
<td>7.50</td>
</tr>
</tbody>
</table>

$1,361,000$ 990,660.99 7.35%
<table>
<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 200,000</td>
<td>Pacific Gas &amp; Elec. Co., 1st &amp; Ref. Mtge., 7-1/2%, due 12/1/03</td>
<td>$ 200,500.00</td>
<td>$ 500.00</td>
<td>7.48%</td>
</tr>
<tr>
<td>500,000</td>
<td>Southwestern Elec. Power Co., 1st Mtge., 7-1/2%, due 10/1/2001</td>
<td>498,750.00</td>
<td>( 3,002.00)</td>
<td>7.52</td>
</tr>
<tr>
<td>117,000</td>
<td>New England Tel. &amp; Tel. Co., Debs., 4-5/8%, due 4/1/99</td>
<td>81,983.07</td>
<td>1,589.47</td>
<td>7.15</td>
</tr>
<tr>
<td>438,000</td>
<td>New York Tel. Co., Ref. Mtge., 4-7/8%, due 1/1/2006</td>
<td>311,886.66</td>
<td>( 13,964.95)</td>
<td>7.15</td>
</tr>
<tr>
<td>20,000</td>
<td>Chesapeake &amp; Potomac Tel. Co. of Virginia, Debs., 5-1/4%, due 5/1/2005</td>
<td>15,188.00</td>
<td>456.32</td>
<td>7.16</td>
</tr>
<tr>
<td>$ 70,000</td>
<td>Indiana Bell Tel. Co., Debs., 4-3/8%, due 6/1/2003</td>
<td>46,152.40</td>
<td>( 2,344.03)</td>
<td>7.11</td>
</tr>
<tr>
<td>50,000</td>
<td>Indiana Bell Tel. Co., Debs., 5-1/2%, due 4/1/2007</td>
<td>39,398.00</td>
<td>1,462.51</td>
<td>7.16</td>
</tr>
<tr>
<td>210,000</td>
<td>Mountain States Tel. &amp; Tel. Co., Debs., 4-1/2%, due 6/1/2002</td>
<td>142,369.50</td>
<td>1,841.91</td>
<td>7.11</td>
</tr>
<tr>
<td>30,000</td>
<td>Mountain States Tel. &amp; Tel. Co., Debs., 5-1/2%, due 6/1/2005</td>
<td>39,538.50</td>
<td>( 1,451.83)</td>
<td>7.16</td>
</tr>
<tr>
<td>160,000</td>
<td>Ohio Bell Tel. Co., Debs., 5%, due 2/1/2006</td>
<td>116,230.40</td>
<td>2,659.90</td>
<td>7.16</td>
</tr>
<tr>
<td>200,000</td>
<td>Consolidated Natural Gas Co., Debs., 8-3/8%, due 5/1/96</td>
<td>212,000.00</td>
<td>750.10</td>
<td>7.82</td>
</tr>
<tr>
<td>155,000</td>
<td>New Jersey Bell Tel. Co., Debs., 4-5/8%, due 6/1/2003</td>
<td>105,683.70</td>
<td>( 23,824.62)</td>
<td>7.16</td>
</tr>
<tr>
<td>45,000</td>
<td>New York Tel. Co., Ref. Mtge., 4-1/4%, due 1/1/2000</td>
<td>29,337.75</td>
<td>( 3,166.67)</td>
<td>7.16</td>
</tr>
<tr>
<td>115,000</td>
<td>Northwestern Bell Tel. Co., Debs., 4-3/8%, due 3/1/2003</td>
<td>75,396.30</td>
<td>1,524.62</td>
<td>7.16</td>
</tr>
<tr>
<td>25,000</td>
<td>Pacific Northwest Bell Tel. Co., Debs., 4-1/2%, due 4/1/2003</td>
<td>16,770.00</td>
<td>( 18.75)</td>
<td>7.16</td>
</tr>
<tr>
<td>100,000</td>
<td>Pacific Tel. &amp; Tel. Co., Debs., 4-5/8%, due 4/1/99</td>
<td>69,949.00</td>
<td>2,148.27</td>
<td>7.16</td>
</tr>
<tr>
<td>88,000</td>
<td>Pacific Tel. &amp; Tel. Co., Debs., 4-5/8%, due 5/1/2000</td>
<td>61,317.52</td>
<td>( 3,942.93)</td>
<td>7.15</td>
</tr>
<tr>
<td>100,000</td>
<td>Public Service Elec. &amp; Gas Co., 1st &amp; Ref. Mtge., 8-3/8%, due 5/1/2001</td>
<td>106,000.00</td>
<td>5,409.27</td>
<td>7.85</td>
</tr>
<tr>
<td>100,000</td>
<td>Scott Paper Co., SF Debs., 8-7/8%, due 6/1/2000</td>
<td>110,150.00</td>
<td>( 49.00)</td>
<td>7.88</td>
</tr>
<tr>
<td>135,000</td>
<td>Southern Bell Tel. &amp; Tel. Co., Debs., 4-3/4%, due 9/1/2000</td>
<td>95,775.75</td>
<td>106.53</td>
<td>7.16</td>
</tr>
<tr>
<td>250,000</td>
<td>Southern Bell Tel. &amp; Tel. Co., Debs., 4-3/8%, due 4/1/2001</td>
<td>165,837.50</td>
<td>( 29,827.59)</td>
<td>7.15</td>
</tr>
<tr>
<td>118,000</td>
<td>Southern Western Bell Tel. Co., Debs., 5-3/8%, due 6/1/2006</td>
<td>91,256.48</td>
<td>( 12,206.59)</td>
<td>7.16</td>
</tr>
<tr>
<td>100,000</td>
<td>Weyerhaeuser Co., SF Debs., 8-9/8%, due 10/1/2000</td>
<td>108,625.00</td>
<td>5,732.65</td>
<td>7.85</td>
</tr>
<tr>
<td>100,000</td>
<td>Wisconsin Elec. Power Co., 1st Mtge., 6-7/8%, due 5/15/98</td>
<td>9,300.00</td>
<td>8.33</td>
<td>7.49</td>
</tr>
<tr>
<td>119,000</td>
<td>Wisconsin Tel. Co., Debs., 6-1/4%, due 8/1/2004</td>
<td>102,648.21</td>
<td>( 559.23)</td>
<td>7.37</td>
</tr>
<tr>
<td>30,000</td>
<td>Appalachian Power Co., 1st Mtge., 4%, due 5/1/88</td>
<td>20,478.60</td>
<td>45.88</td>
<td>7.45</td>
</tr>
<tr>
<td><strong>3,555,000</strong></td>
<td><strong>Total Corporate Bonds</strong></td>
<td><strong>2,906,826.84</strong></td>
<td><strong>( 73,853.72)</strong></td>
<td><strong>7.38</strong></td>
</tr>
</tbody>
</table>
### BOND SALES AND MATURITIES

<table>
<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U. S. Government Obligations</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$ 4,970.63</td>
<td>GNMA, Pass-Through Pool #93, 8%, due 12/15/2000</td>
<td>$ 4,970.63</td>
<td>($ 271.89)</td>
<td>8.00%</td>
</tr>
<tr>
<td>166.45</td>
<td>GNMA, Pass-Through Pool #163, 8%, due 2/15/2001</td>
<td>166.45</td>
<td>(9.15)</td>
<td>8.00%</td>
</tr>
<tr>
<td>63.47</td>
<td>GNMA, Pass-Through Pool #548, 8%, due 4/15/2001</td>
<td>63.47</td>
<td>(3.49)</td>
<td>8.00%</td>
</tr>
<tr>
<td>253.88</td>
<td>GNMA, Pass-Through Pool #650, 8%, due 4/15/2001</td>
<td>253.88</td>
<td>(13.96)</td>
<td>8.00%</td>
</tr>
<tr>
<td>122.19</td>
<td>GNMA, Pass-Through Pool #708, 6-1/2%, due 11/15/2001</td>
<td>122.19</td>
<td>5.19</td>
<td>6.50%</td>
</tr>
<tr>
<td>450.51</td>
<td>GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002</td>
<td>450.51</td>
<td>44.65</td>
<td>6.50%</td>
</tr>
<tr>
<td>466.20</td>
<td>GNMA, Pass-Through Pool #920, 8%, due 9/15/2001</td>
<td>466.20</td>
<td>(8.07)</td>
<td>8.00%</td>
</tr>
<tr>
<td>6,493.33</td>
<td>Total U. S. Government Obligations</td>
<td>6,493.33</td>
<td>(256.72)</td>
<td>7.86%</td>
</tr>
<tr>
<td><strong>$3,561,493.33</strong></td>
<td>TOTAL CORPORATE AND GOVERNMENT BONDS</td>
<td><strong>$2,913,320.17</strong></td>
<td>($74,110.44)</td>
<td><strong>7.38%</strong></td>
</tr>
</tbody>
</table>

### Convertible Bonds

<table>
<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>CURRENT YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 128,000</td>
<td>Houston Lighting &amp; Power Co., Conv. Debs., 5-1/2%, due 2/1/85</td>
<td>$ 145,920.00</td>
<td>$ 1,725.00</td>
</tr>
</tbody>
</table>
## Bond Sales and Redemptions

### (July, 1972)

<table>
<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>$10,000</td>
<td>First Savings &amp; Loan Association of El Paso, 6%, due 7/1/72</td>
<td>$10,000.00</td>
<td>--</td>
<td>6.00%</td>
</tr>
</tbody>
</table>

### Josephine Clardy Fox Estate Fund - U. T. El Paso

| $15,000 | U. S. Treasury Notes, 5-3/4%, due 11/15/74 | $15,000.00 | $375.00 | 5.75% |
| $20,000 | U. S. Treasury Notes, 5-3/4%, due 2/15/75 | $19,975.00 | $481.25 | 5.80% |
| $35,000 | $34,975.00 | $856.25 | 5.28% |

### Miss Eloise Alexander Memorial Fund - San Antonio Medical School

| $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 | $558.03 | 6.08% |
| $45,000 | U. S. Treasury Bonds, 4-1/4%, due 8/15/92-97 | $45,156.25 | ($2,948.78) | 6.16% |
| $91,000 | $83,808.75 | ($454.79) | 6.08% |

### Hospital Refunding Bonds, Dated 1-1-51 - U. T. Austin

| $100,000 | Union Carbide Corp., 6% Note, due annually | $100,000.00 | -- | 6.00% |

### Archer M. Huntington Museum Fund

### Jack G. Taylor Endowment Fund

| $2,083.33 | Universal Tel. Co., Sub. Conv. Note, 8%, due 4/1/75 | $2,083.33 | -- | 8.00% |
## WALTER PRESCOTT WEBB SYMPOSIUM FUND
(July, 1972)

### STOCK SALES

<table>
<thead>
<tr>
<th>NO. OF SHARES SOLD</th>
<th>ISSUE</th>
<th>NET SALES PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 Shs.</td>
<td>American First Corporation Common Stock</td>
<td>$ 17,371.60</td>
<td>($ 4,628.40)</td>
<td>0.17%</td>
</tr>
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</table>

## ANDERSON-MAYFAIR MORTGAGE RETIREMENT FUND - ANDERSON HOSPITAL
(July, 1972)

### BOND PURCHASES

<table>
<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE</th>
<th>UNIT</th>
<th>COST</th>
<th>TOTAL</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 7,000</td>
<td>Public Service Electric &amp; Gas Co., Debs., 4-5/8%, due 3/1/77</td>
<td>$ 91.127</td>
<td>$ 6,378.89</td>
<td>6.90%</td>
<td></td>
</tr>
</tbody>
</table>

## THE WILLIAM BUCHANAN CHAIR IN INTERNAL MEDICINE - DALLAS MEDICAL SCHOOL
(July, 1972)

### BOND SALES AND MATURITIES

<table>
<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 880.84</td>
<td>GNMA, Pass-Through Pool #650, 8%, due 4/15/2001</td>
<td>$ 880.84</td>
<td>($ 16.78)</td>
<td>8.00%</td>
</tr>
<tr>
<td>51.04</td>
<td>GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002</td>
<td>51.04</td>
<td>3.93</td>
<td>6.50</td>
</tr>
<tr>
<td>$ 931.88</td>
<td></td>
<td>$ 931.88</td>
<td>($ 12.85)</td>
<td>7.92%</td>
</tr>
<tr>
<td>ISSUE</td>
<td>PROCEEDS</td>
<td>PROFIT OR (LOSS)</td>
<td>YIELD</td>
<td></td>
</tr>
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<td>-------</td>
<td>----------</td>
<td>-----------------</td>
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<td></td>
</tr>
<tr>
<td><strong>RESERVE FOR POSSIBLE FIRE LOSSES - TEMPORARY STUDENT HOUSING UNITS:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>$60.03</td>
<td>$0.76</td>
<td>6.50%</td>
<td></td>
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<tr>
<td><strong>TEXAS UNION BUILDING FUND:</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>$140.21</td>
<td>$12.87</td>
<td>6.50%</td>
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<tr>
<td><strong>STUDENT PROPERTY DEPOSIT SCHOLARSHIP FUND:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #121, 8%, due 11/15/2000</td>
<td>$39.32</td>
<td>($1.12)</td>
<td>8.00%</td>
<td></td>
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<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>357.96</td>
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<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>150.21</td>
<td>0.11</td>
<td>6.50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$547.49</td>
<td>($1.01)</td>
<td>7.59%</td>
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</tr>
<tr>
<td><strong>STUDENT PROPERTY DEPOSIT SCHOLARSHIP FUND - TEMPORARY:</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #708, 6-1/2%, due 11/15/2001</td>
<td>$190.88</td>
<td>$4.18</td>
<td>6.50%</td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>168.20</td>
<td>7.03</td>
<td>6.50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$359.08</td>
<td>$11.21</td>
<td>6.50%</td>
<td></td>
</tr>
<tr>
<td><strong>U. T. SYSTEM - GENERAL TUITION REVENUE BONDS, SERIES 1971 - RESERVE FUND:</strong></td>
<td></td>
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</tr>
<tr>
<td>GNMA, Pool #708, 6-1/2%, due 11/15/2001</td>
<td>$76.26</td>
<td>$3.81</td>
<td>6.50%</td>
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<tr>
<td>GNMA, Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>436.78</td>
<td>21.49</td>
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<td></td>
<td>$513.04</td>
<td>$25.30</td>
<td>6.50%</td>
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<td><strong>U. T. AUSTIN - DORMITORY REVENUE BOND FUND, SERIES 1954 - RESERVE FUND:</strong></td>
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<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$416.80</td>
<td>-0-</td>
<td>8.00%</td>
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<tr>
<td>GNMA, Pool #548, 8%, due 4/15/2001</td>
<td>280.12</td>
<td>(16.24)</td>
<td>8.00</td>
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<tr>
<td></td>
<td>$696.92</td>
<td>($16.24)</td>
<td>8.00%</td>
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<tr>
<td><strong>U. T. AUSTIN - DORMITORY REVENUE BONDS FUND, SERIES 1956 - RESERVE FUND:</strong></td>
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<td></td>
</tr>
<tr>
<td>GNMA, Pool #548, 8%, due 4/15/2001</td>
<td>$57.63</td>
<td>($3.34)</td>
<td>8.00%</td>
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</tr>
<tr>
<td>GNMA, Pool #650, 8%, due 4/15/2001</td>
<td>149.28</td>
<td>(4.87)</td>
<td>8.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$206.91</td>
<td>($4.87)</td>
<td>8.00%</td>
<td></td>
</tr>
<tr>
<td><strong>U. T. AUSTIN - STUDENT HOUSING REVENUE BONDS OF 1963 - RESERVE FUND:</strong></td>
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<td></td>
</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$622.75</td>
<td>-0-</td>
<td>8.00%</td>
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<tr>
<td>GNMA, Pool #650, 8%, due 4/15/2001</td>
<td>149.28</td>
<td>(4.87)</td>
<td>8.00</td>
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<tr>
<td></td>
<td>$772.03</td>
<td>($4.87)</td>
<td>8.00%</td>
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GNMA PASS-THROUGH MATURITIES

(July, 1972)

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>U. T. AUSTIN - HOUSING SYSTEM REVENUE BONDS, SERIES 1967 - RESERVE FUND:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #121, 8%, due 11/15/2000</td>
<td>$133.67</td>
<td>$7.83</td>
<td>8.00%</td>
</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>372.67</td>
<td>-0-</td>
<td>8.00</td>
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<tr>
<td>GNMA, Pool #548, 8%, due 4/15/2001</td>
<td>94.10</td>
<td>(5.45)</td>
<td>8.00</td>
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<tr>
<td>GNMA, Pool #550, 8%, due 4/15/2001</td>
<td>570.47</td>
<td>(18.60)</td>
<td>8.00</td>
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<tr>
<td>GNMA, Pool #708, 6-1/2%, due 11/15/2001</td>
<td>38.08</td>
<td>1.90</td>
<td>6.50</td>
</tr>
<tr>
<td>GNMA, Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>77.03</td>
<td>4.85</td>
<td>6.50</td>
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<td></td>
<td>$1,286.02</td>
<td>($9.47)</td>
<td>7.87%</td>
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<tr>
<td>U. T. AUSTIN - BUILDING REVENUE BONDS, SERIES 1969</td>
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<tr>
<td>GNMA, Pool #121, 8%, due 11/15/2000</td>
<td>$859.81</td>
<td>($49.61)</td>
<td>8.00%</td>
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<tr>
<td>GNMA, Pool #548, 8%, due 4/15/2001</td>
<td>76.60</td>
<td>(4.44)</td>
<td>8.00</td>
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<tr>
<td>GNMA, Pool #920, 8%, due 9/15/2001</td>
<td>58.89</td>
<td>1.03</td>
<td>8.00</td>
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<tr>
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<td>$955.30</td>
<td>($53.02)</td>
<td>8.00%</td>
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<tr>
<td>U. T. AUSTIN - COMBINED FEE REVENUE BONDS, SERIES 1970 &amp; 1971 - RESERVE FUND:</td>
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<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$85.82</td>
<td>-0-</td>
<td>8.00%</td>
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<tr>
<td>GNMA, Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>399.55</td>
<td>19.30</td>
<td>6.50</td>
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<td>$485.37</td>
<td>19.30</td>
<td>6.77%</td>
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<tr>
<td>U. T. AUSTIN - STUDENT UNION REVENUE BONDS, SERIES 1958 - RESERVE FUND:</td>
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<td></td>
</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$122.59</td>
<td>-0-</td>
<td>8.00%</td>
</tr>
<tr>
<td></td>
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<tr>
<td>GALVESTON MEDICAL BRANCH - DORMITORY REVENUE BONDS, SERIES 1955 - RESERVE FUND:</td>
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</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$1,059.16</td>
<td>-0-</td>
<td>8.00%</td>
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<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>168.20</td>
<td>0.10</td>
<td>6.50</td>
</tr>
<tr>
<td></td>
<td>$1,227.36</td>
<td>0.10</td>
<td>7.79%</td>
</tr>
<tr>
<td>U. T. EL PASO - STUDENT HOUSING REVENUE BONDS OF 1961 - RESERVE FUND:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>$26.09</td>
<td>0.78</td>
<td>6.50%</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td>U. T. EL PASO - BUILDING REVENUE BONDS, SERIES 1969 - RESERVE FUND:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #121, 8%, due 11/15/2000</td>
<td>$121.01</td>
<td>2.57</td>
<td>8.00%</td>
</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>362.86</td>
<td>-0-</td>
<td>8.00</td>
</tr>
<tr>
<td>GNMA, Pool #920, 8%, due 9/15/2001</td>
<td>10.38</td>
<td>0.26</td>
<td>8.00</td>
</tr>
<tr>
<td>GNMA, Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>308.01</td>
<td>19.34</td>
<td>6.50</td>
</tr>
<tr>
<td></td>
<td>$802.26</td>
<td>22.17</td>
<td>7.42%</td>
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<tr>
<td>U. T. EL PASO - STUDENT UNION BUILDING REVENUE BONDS, SERIES A AND B, 1967 - RESERVE FUND:</td>
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<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$387.38</td>
<td>-0-</td>
<td>8.00%</td>
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<tr>
<td>GNMA, Pool #548, 8%, due 4/15/2001</td>
<td>30.64</td>
<td>(1.78)</td>
<td>8.00</td>
</tr>
<tr>
<td></td>
<td>$418.02</td>
<td>(1.78)</td>
<td>8.00%</td>
</tr>
</tbody>
</table>
### GNMA PASS-THROUGH MATURITIES

(July, 1972)

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U. T. EL PASO - COMBINED FEE REVENUE BONDS, SERIES 1970 &amp; 1971 - RESERVE FUND:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #920, 8%, due 9/15/2001</td>
<td>$34.66</td>
<td>$0.56</td>
<td>8.00%</td>
</tr>
<tr>
<td>GNMA, Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>$34.28</td>
<td>$2.15</td>
<td>6.50</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>$68.94</td>
<td>$2.71</td>
<td>7.25%</td>
</tr>
</tbody>
</table>

| **U. T. ARLINGTON - HOUSING SYSTEM REVENUE BONDS - SERIES 1963 - RESERVE FUND:** | | | |
| 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 |
| **Total:** | $346.09 | 1.37 | 7.88% |

| **U. T. ARLINGTON - STUDENT CENTER FEE BONDS, SERIES 1960 - RESERVE FUND:** | | | |
| GNMA, Pool #184, 8%, due 4/1/2001 | $392.28 | $-0- | 8.00% |

| **U. T. ARLINGTON - GYMNASIUM FEE BONDS - SERIES 1961 - RESERVE FUND:** | | | |
| GNMA, Pool #184, 8%, due 4/1/2001 | $404.54 | $-0- | 8.00% |

| **U. T. ARLINGTON - STUDENT FEE REVENUE BONDS - SERIES 1964, SERIES 1966, AND SERIES 1968 - RESERVE FUND:** | | | |
| GNMA, Pool #121, 8%, due 11/15/2000 | $65.55 | $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 |
| **Total:** | $242.53 | ($0.89) | 7.68% |

| **U. T. ARLINGTON - COMBINED FEE REVENUE BONDS, SERIES 1971 & 1971A - RESERVE FUND:** | | | |
| 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 |
| **Total:** | $67.37 | $3.32 | 6.50% |
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

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Description and Fund</th>
<th>Total Net Cost</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SHORT TERM PAPER:</strong></td>
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<tr>
<td><strong>$150,000</strong></td>
<td>FMC 4-3/8% Note, due 8/31/72</td>
<td>$150,000.00</td>
<td>4.39101%</td>
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<tr>
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<td>($87,000 - Common Trust Fund - Undistributed Receipts)</td>
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<tr>
<td><strong>100,000</strong></td>
<td>FMC 4-1/2% Note, due 10/30/72</td>
<td>100,000.00</td>
<td>4.535147</td>
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<tr>
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<td>($90,000 - Board for Lease 1% Fee Fund - Office of the President - Various Donors - Various Purposes)</td>
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<tr>
<td><strong>31,000</strong></td>
<td>City National Bank 4-7/8% CD, due 11/28/72</td>
<td>31,000.00</td>
<td>4.875</td>
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<td>($500 - Center for Middle Eastern Studies - Fund Raising Committee Discretionary Fund)</td>
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<tr>
<td></td>
<td>2,000 - Mr. &amp; Mrs. Hines H. Baker Professorship in Law in Field of Jurisprudence</td>
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<tr>
<td></td>
<td>6,000 - Toreador Trust Funds for Salary Supplementation for the School of Law</td>
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<tr>
<td></td>
<td>5,000 - Stiles Professorship in American Studies</td>
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<tr>
<td></td>
<td>10,000 - Stiles Professorship in Comparative Literature</td>
<td></td>
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<tr>
<td></td>
<td>1,000 - DeRosette Thomas Fund for Asa Mitchell Guidance Center</td>
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<tr>
<td></td>
<td>1,000 - J. V. and H. A. Stiles Foundation</td>
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</tr>
<tr>
<td></td>
<td>5,500 - Alexander Caswell Ellis Fellowship in Education)</td>
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</tr>
<tr>
<td><strong>37,000</strong></td>
<td>City National Bank 4-7/8% CD, due 11/29/72</td>
<td>37,000.00</td>
<td>4.875</td>
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<tr>
<td></td>
<td>($14,000 - Brown and Lupton Foundation - Various Donors - Arts &amp; Sciences Foundation)</td>
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<tr>
<td></td>
<td>20,000 - Lila Belle Etter Fund</td>
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<tr>
<td></td>
<td>3,000 - C. J. Thomasen Gift)</td>
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<tr>
<td><strong>4,200</strong></td>
<td>City National Bank 4% CD, due 2/26/73</td>
<td>4,200.00</td>
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<td></td>
<td>(Student Property Deposit Scholarship Fund)</td>
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<tr>
<td>Par Value</td>
<td>Description and Fund</td>
<td>Total Net Proceeds</td>
<td>Gain or Loss</td>
</tr>
<tr>
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<td>---------------------</td>
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<tr>
<td>$11,762.79</td>
<td>Common Trust Fund</td>
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<td>988.47</td>
<td>The William Buchanan Chair in Internal Medicine - BMS</td>
<td>988.47</td>
<td>2.35</td>
</tr>
<tr>
<td>259.32</td>
<td>Reserve for Possible Fire Losses - Temporary Student Housing Units</td>
<td>259.32</td>
<td>3.27</td>
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<tr>
<td>605.63</td>
<td>Texas Union Building Fund</td>
<td>605.63</td>
<td>55.60</td>
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<tr>
<td>1,320.90</td>
<td>Student Property Deposit Scholarship Fund</td>
<td>1,320.90</td>
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<tr>
<td>916.82</td>
<td>Student Property Deposit Scholarship Fund - Temporary</td>
<td>916.82</td>
<td>34.54</td>
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<td>515.34</td>
<td>U.T. System - General Tuition Revenue Bonds, Series 1971 - Reserve Fund</td>
<td>515.34</td>
<td>25.41</td>
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<tr>
<td>9,572.56</td>
<td>U.T. Austin - Dormitory Revenue Bond Fund, Series 1956 - Reserve Fund</td>
<td>9,572.56</td>
<td>(512.20)</td>
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<tr>
<td>1,948.00</td>
<td>U.T. Austin - Dormitory Revenue Bond Fund, Series 1956 - Reserve Fund</td>
<td>1,948.00</td>
<td>(109.61)</td>
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<td>1,230.44</td>
<td>U.T. Austin - Student Housing Revenue Bonds of 1963 - Reserve Fund</td>
<td>1,230.44</td>
<td>(4.24)</td>
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<td>216.59</td>
<td>U.T. Austin - Student Union Revenue Bonds, Series 1958 - Reserve Fund</td>
<td>216.59</td>
<td>(0)</td>
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<td>2,597.91</td>
<td>Galveston Medical Branch - Dormitory Revenue Bonds, Series 1955 - Reserve Fund</td>
<td>2,597.91</td>
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<tr>
<td>112.71</td>
<td>U.T. El Paso - Student Housing Revenue Bonds of 1961 - Reserve Fund</td>
<td>112.71</td>
<td>3.38</td>
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<tr>
<td>1,083.23</td>
<td>U.T. El Paso - Building Revenue Bonds, Series 1969 - Reserve Fund</td>
<td>1,083.23</td>
<td>22.29</td>
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<td>1,650.89</td>
<td>U.T. El Paso - Student Union Building Revenue Bonds, Series A and B, 1967 - Reserve Fund</td>
<td>1,650.89</td>
<td>(56.02)</td>
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<tr>
<td>693.10</td>
<td>U.T. Arlington - Student Center Fee Bonds, Series 1960 - Reserve Fund</td>
<td>693.10</td>
<td>(0)</td>
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INVESTMENTS DISPOSED OF
(Continued)

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Description and Fund</th>
<th>Total Net Proceeds</th>
<th>Gain or (Loss)</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 714.76</td>
<td>U.T. Arlington - Gymnasium Fee Bonds - Series 1961 - Reserve Fund</td>
<td>$ 714.76</td>
<td>$ -0-</td>
<td>8.00%</td>
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<tr>
<td>TOTAL</td>
<td>U. S. Government Obligations</td>
<td>$ 49,478.55</td>
<td>($1,405.06)</td>
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<td>(TOTAL - LONG TERM INVESTMENTS SOLD)</td>
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SHORT TERM PAPER:

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<tr>
<th>Par Value</th>
<th>Description and Fund</th>
<th>Total Net Proceeds</th>
<th>Gain or (Loss)</th>
<th>Yield</th>
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</thead>
<tbody>
<tr>
<td>2,040</td>
<td>City National Bank 5% CD, due 8/25/72</td>
<td>$ 2,040.00</td>
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<td>5.00%</td>
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<td>16,000</td>
<td>City National Bank 4-3/4% CD, due 8/30/72</td>
<td>16,000.00</td>
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<td>4.75</td>
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<tr>
<td>130,000</td>
<td>FMC 4-1/2% Note, due 8/31/72 ($120,000 - Common Trust Fund - Undistributed Receipts 10,000 - Josephine Clardy Fox Estate Fund - UTEP)</td>
<td>130,000.00</td>
<td>--</td>
<td>4.655503</td>
</tr>
<tr>
<td>63,000</td>
<td>FMC 4-3/8% Note, due 8/31/72 ($48,500 - Common Trust Fund - Undistributed Receipts 34,500 - Miss Eloise Alexander Memorial Fund - SAMS)</td>
<td>63,000.00</td>
<td>--</td>
<td>4.39101</td>
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<tr>
<td>100,000</td>
<td>FMC 4-5/8% Note, due 8/31/72 (Archer M. Huntington Museum Fund)</td>
<td>100,000.00</td>
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<td>4.655503</td>
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<tr>
<td>83,000</td>
<td>FMC 4-1/2% Note, due 8/31/72 ($48,500 - Common Trust Fund - Undistributed Receipts 34,500 - Miss Eloise Alexander Memorial Fund - SAMS)</td>
<td>83,000.00</td>
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<td>4.524887</td>
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<tr>
<td>134,000</td>
<td>FMC 4-1/2% Note, due 8/31/72 (Common Trust Fund - Undistributed Receipts)</td>
<td>134,000.00</td>
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<td>4.53915</td>
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L & I Report - 39
### THE UNIVERSITY OF TEXAS SYSTEM COMMON TRUST FUND
(August, 1972)

#### STOCK CONVERSION

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<thead>
<tr>
<th>Securities Converted</th>
<th>Book Value</th>
<th>Principal Cash in Annual (Decrease)</th>
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<tbody>
<tr>
<td>2,100 Shares International Tel. &amp; Tel. Corp. Cumulative Preferred Stock $2.25 Convertible Series N into</td>
<td>$151,145.45</td>
<td>$151,145.45</td>
</tr>
<tr>
<td>2,625 Shares International Tel. &amp; Tel. Corp. Common Stock (1-for-1.25 basis)</td>
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#### BOND SALES AND MATURITIES

<table>
<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 5,501.98</td>
<td>GNMA, Pass-Through Pool #95, 8%, due 12/15/2000</td>
<td>$ 5,501.98</td>
<td>($ 300.96)</td>
<td>8.00%</td>
</tr>
<tr>
<td>1,500.21</td>
<td>GNMA, Pass-Through Pool #163, 8%, due 2/15/2001</td>
<td>1,500.21</td>
<td>( 82.09)</td>
<td>8.00</td>
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<tr>
<td>2,001.94</td>
<td>GNMA, Pass-Through Pool #548, 8%, due 4/15/2001</td>
<td>2,001.94 ( 110.11)</td>
<td>8.00</td>
<td></td>
</tr>
<tr>
<td>221.35</td>
<td>GNMA, Pass-Through Pool #650, 8%, due 4/15/2001</td>
<td>221.35 ( 12.17)</td>
<td>8.00</td>
<td></td>
</tr>
<tr>
<td>121.80</td>
<td>GNMA, Pass-Through Pool #708, 6-1/2%, due 11/15/2001</td>
<td>121.80</td>
<td>5.18</td>
<td>6.50</td>
</tr>
<tr>
<td>1,946.01</td>
<td>GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002</td>
<td>1,946.01 ( 192.85)</td>
<td>6.50</td>
<td></td>
</tr>
<tr>
<td>469.50</td>
<td>GNMA, Pass-Through Pool #920, 8%, due 9/15/2001</td>
<td>469.50 ( 8.11)</td>
<td>8.00</td>
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</tr>
<tr>
<td>$ 11,762.79</td>
<td></td>
<td></td>
<td>($ 315.43)</td>
<td>7.72%</td>
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</tbody>
</table>

### THE WILLIAM BUCHANAN CHAIR IN INTERNAL MEDICINE - DALLAS MEDICAL SCHOOL
(August, 1972)

#### BOND SALES AND MATURITIES

<table>
<thead>
<tr>
<th>PAR VALUE</th>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 767.99</td>
<td>GNMA, Pass-Through Pool #650, 8%, due 4/15/2001</td>
<td>$ 767.99</td>
<td>($ 14.63)</td>
<td>8.00%</td>
</tr>
<tr>
<td>220.48</td>
<td>GNMA, Pass-Through Pool #852, 6-1/2%, due 1/15/2002</td>
<td>220.48</td>
<td>16.98</td>
<td>9.50</td>
</tr>
<tr>
<td>$ 988.47</td>
<td></td>
<td>$ 2.35</td>
<td>7.66%</td>
<td></td>
</tr>
</tbody>
</table>

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**Note:** The numbers and values presented in the table should be verified for accuracy. The table includes details on stock conversion, bond sales, and maturities for specific securities and their respective financial details.
## GNMA PASS-THROUGH MATURITIES

(August, 1972)

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RESERVE FOR POSSIBLE FIRE LOSSES - TEMPORARY STUDENT HOUSING UNITS:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>$ 259.32</td>
<td>$ 3.27</td>
<td>6.50%</td>
</tr>
<tr>
<td><strong>TEXAS UNION BUILDING FUND:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>$ 605.63</td>
<td>$ 55.60</td>
<td>6.50%</td>
</tr>
<tr>
<td><strong>STUDENT PROPERTY DEPOSIT SCHOLARSHIP FUND:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #121, 8%, due 11/15/2000</td>
<td>$ 39.60</td>
<td>($ 1.12)</td>
<td>8.00%</td>
</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>632.45</td>
<td>-0-</td>
<td>8.00</td>
</tr>
<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>648.85</td>
<td>0.45</td>
<td>6.50</td>
</tr>
<tr>
<td><strong>STUDENT PROPERTY DEPOSIT SCHOLARSHIP FUND - TEMPORARY:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #708, 6-1/2%, due 11/15/2001</td>
<td>$ 190.28</td>
<td>$ 4.17</td>
<td>6.50%</td>
</tr>
<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>726.54</td>
<td>30.37</td>
<td>6.50</td>
</tr>
<tr>
<td><strong>U. T. SYSTEM - GENERAL TUITION REVENUE BONDS, SERIES 1971 - RESERVE FUND:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #708, 6-1/2%, due 11/15/2001</td>
<td>$ 76.02</td>
<td>$ 3.80</td>
<td>6.50%</td>
</tr>
<tr>
<td>GNMA, Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>439.32</td>
<td>21.61</td>
<td>6.50</td>
</tr>
<tr>
<td><strong>U. T. AUSTIN - DORMITORY REVENUE BOND FUND, SERIES 1954 - RESERVE FUND:</strong></td>
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<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$ 736.42</td>
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</tr>
<tr>
<td>GNMA, Pool #548, 8%, due 4/15/2001</td>
<td>8,836.14</td>
<td>(512.20)</td>
<td>8.00</td>
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<tr>
<td><strong>U. T. AUSTIN - DORMITORY REVENUE BONDS FUND, SERIES 1956 - RESERVE FUND:</strong></td>
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</tr>
<tr>
<td>GNMA, Pool #548, 8%, due 4/15/2001</td>
<td>$ 1,817.85</td>
<td>($ 105.37)</td>
<td>8.00%</td>
</tr>
<tr>
<td>GNMA, Pool #650, 8%, due 4/15/2001</td>
<td>130.15</td>
<td>4.24</td>
<td>8.00</td>
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<tr>
<td><strong>U. T. AUSTIN - STUDENT HOUSING REVENUE BONDS OF 1963 - RESERVE FUND:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$ 1,100.29</td>
<td>-0-</td>
<td>8.00%</td>
</tr>
<tr>
<td>GNMA, Pool #650, 8%, due 4/15/2001</td>
<td>130.15</td>
<td>4.24</td>
<td>8.00%</td>
</tr>
</tbody>
</table>

L & I Report - 41
<table>
<thead>
<tr>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U. T. AUSTIN - HOUSING SYSTEM REVENUE BONDS, SERIES 1967 - RESERVE FUND:</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>GNMA, Pool #121, 8%, due 11/15/2000</td>
<td>$134.62</td>
<td>$7.89</td>
<td>8.00%</td>
</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>658.44</td>
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<tr>
<td>GNMA, Pool #548, 8%, due 4/15/2001</td>
<td>2,968.39</td>
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<td>GNMA, Pool #650, 8%, due 4/15/2001</td>
<td>497.37</td>
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<td>GNMA, Pool #708, 6-1/2%, due 11/15/2001</td>
<td>37.96</td>
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<tr>
<td>GNMA, Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>77.48</td>
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<td></td>
<td>$4,374.26</td>
<td>($173.63)</td>
<td>7.96%</td>
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<tr>
<td><strong>U. T. AUSTIN - BUILDING REVENUE BONDS, SERIES 1969:</strong></td>
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<tr>
<td><strong>UTILITY PLANT - STUDENT FEE REVENUE BONDS - RESERVE FUND:</strong></td>
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<td>GNMA, Pool #121, 8%, due 11/15/2000</td>
<td>$865.95</td>
<td>($49.97)</td>
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<td>GNMA, Pool #548, 8%, due 4/15/2001</td>
<td>2,416.13</td>
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<td>GNMA, Pool #920, 8%, due 9/15/2001</td>
<td>59.31</td>
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<td></td>
<td>$3,341.39</td>
<td>($188.99)</td>
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<td><strong>U. T. AUSTIN - COMBINED FEE REVENUE BONDS, SERIES 1970 &amp; 1971 - RESERVE FUND:</strong></td>
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</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$151.62</td>
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<td>GNMA, Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>401.87</td>
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<td></td>
<td>$553.49</td>
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<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$216.59</td>
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<td>8.00%</td>
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<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$1,871.37</td>
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<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>726.54</td>
<td>0.44</td>
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<tr>
<td></td>
<td>$2,597.91</td>
<td>0.44</td>
<td>6.50%</td>
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<tr>
<td><strong>U. T. EL PASO - STUDENT HOUSING REVENUE BONDS OF 1961 - RESERVE FUND:</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>$112.71</td>
<td>3.38</td>
<td>6.50%</td>
</tr>
<tr>
<td><strong>U. T. EL PASO - BUILDING REVENUE BONDS, SERIES 1969 - RESERVE FUND:</strong></td>
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<tr>
<td>GNMA, Pool #121, 8%, due 11/15/2000</td>
<td>$121.87</td>
<td>2.58</td>
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<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>641.12</td>
<td>-0-</td>
<td>8.00</td>
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<td>GNMA, Pool #920, 8%, due 9/15/2001</td>
<td>10.45</td>
<td>0.26</td>
<td>8.00</td>
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<tr>
<td>GNMA, Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>309.79</td>
<td>19.45</td>
<td>6.50</td>
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<tr>
<td></td>
<td>$1,083.23</td>
<td>22.29</td>
<td>7.56%</td>
</tr>
<tr>
<td><strong>U. T. EL PASO - STUDENT UNION BUILDING REVENUE BONDS, SERIES A AND B, 1967 - RESERVE FUND:</strong></td>
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<td></td>
</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$684.44</td>
<td>-0-</td>
<td>8.00%</td>
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<tr>
<td>GNMA, Pool #548, 8%, due 4/15/2001</td>
<td>966.45</td>
<td>(56.02)</td>
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<tr>
<td></td>
<td>$1,650.89</td>
<td>(56.02)</td>
<td>8.00%</td>
</tr>
</tbody>
</table>

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### GNMA Pass-through Maturities
(August, 1972)

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>PROCEEDS</th>
<th>PROFIT OR (LOSS)</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U. T. EL PASO - Combined Fee Revenue Bonds, Series 1970 &amp; 1971 - Reserve Fund:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #920, 8%, due 9/15/2001</td>
<td>$34.91</td>
<td>$0.56</td>
<td>8.00%</td>
</tr>
<tr>
<td>GNMA, Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>$34.48</td>
<td>$2.17</td>
<td>6.50%</td>
</tr>
<tr>
<td>****</td>
<td><strong>$69.39</strong></td>
<td><strong>$2.73</strong></td>
<td><strong>7.10%</strong></td>
</tr>
<tr>
<td><strong>U. T. ARLINGTON - Housing System Revenue Bonds - Series 1963 - Reserve Fund:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$563.14</td>
<td>$-0-</td>
<td>8.00%</td>
</tr>
<tr>
<td>GNMA, Pool #708, 6-1/2%, due 11/15/2001</td>
<td>$27.28</td>
<td>$1.36</td>
<td>6.50%</td>
</tr>
<tr>
<td>****</td>
<td><strong>$590.42</strong></td>
<td><strong>$1.36</strong></td>
<td><strong>7.93%</strong></td>
</tr>
<tr>
<td><strong>U. T. ARLINGTON - Student Center Fee Bonds, Series 1960 - Reserve Fund:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$693.10</td>
<td>$-0-</td>
<td>8.00%</td>
</tr>
<tr>
<td><strong>U. T. ARLINGTON - Gymnasium Fee Bonds - Series 1961 - Reserve Fund:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #184, 8%, due 4/1/2001</td>
<td>$714.76</td>
<td>$-0-</td>
<td>8.00%</td>
</tr>
<tr>
<td><strong>U. T. ARLINGTON - Student Fee Revenue Bonds - Series 1964, Series 1966, and Series 1968 - Reserve Fund:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #121, 8%, due 11/15/2000</td>
<td>$64.00</td>
<td>$4.32</td>
<td>8.00%</td>
</tr>
<tr>
<td>GNMA, Pool #548, 8%, due 4/15/2001</td>
<td>$4,003.88</td>
<td>$(232.09)</td>
<td>8.00%</td>
</tr>
<tr>
<td>GNMA, Pool #852, 6-1/2%, due 1/15/2002</td>
<td>$224.86</td>
<td>$9.40</td>
<td>6.50%</td>
</tr>
<tr>
<td>****</td>
<td><strong>$4,292.74</strong></td>
<td><strong>$(218.37)</strong></td>
<td><strong>7.92%</strong></td>
</tr>
<tr>
<td><strong>U. T. ARLINGTON - Combined Fee Revenue Bonds, Series 1971 &amp; 1971A - Reserve Fund:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GNMA, Pool #708, 6-1/2%, due 11/15/2001</td>
<td>$38.99</td>
<td>$1.95</td>
<td>6.50%</td>
</tr>
<tr>
<td>GNMA, Pool #1029, 6-1/2%, due 12/15/2001</td>
<td>$28.41</td>
<td>$1.37</td>
<td>6.50%</td>
</tr>
<tr>
<td>****</td>
<td><strong>$67.40</strong></td>
<td><strong>$3.32</strong></td>
<td><strong>6.50%</strong></td>
</tr>
</tbody>
</table>