

College Of Medicine Bulletin

1992-1994



Texas A&M University Health Science Center

# ERRATA

**Page 6,** Spring Term 1993. Change June 4 to "June 11",  
Last day of classes for M-1 students.  
Change June 7-11 to "June 14-18",  
Term final exams for M-1 students.

**Page 9,** Replacement for Academic Calendar

## FIRST YEAR (M-1)

### Fall Semester 1993

August 9-13	Orientation - Retreat
August 13	First day of classes.
November 25-26	THANKSGIVING HOLIDAY
December 10	Last day of classes
December 13-17	Fall semester final examinations

### Spring Semester 1994

January 3	First day of classes
March 12-20	SPRING HOLIDAY
May 6	Last day of classes
May 9-13	Spring semester final examinations

## SECOND YEAR (M-2)

### Fall Term 1993

August 23	First day of classes
November 12	Last day of classes
November 15-19	Fall term final examinations
November 20-28	Thanksgiving Holiays

### Winter Term 1993-94

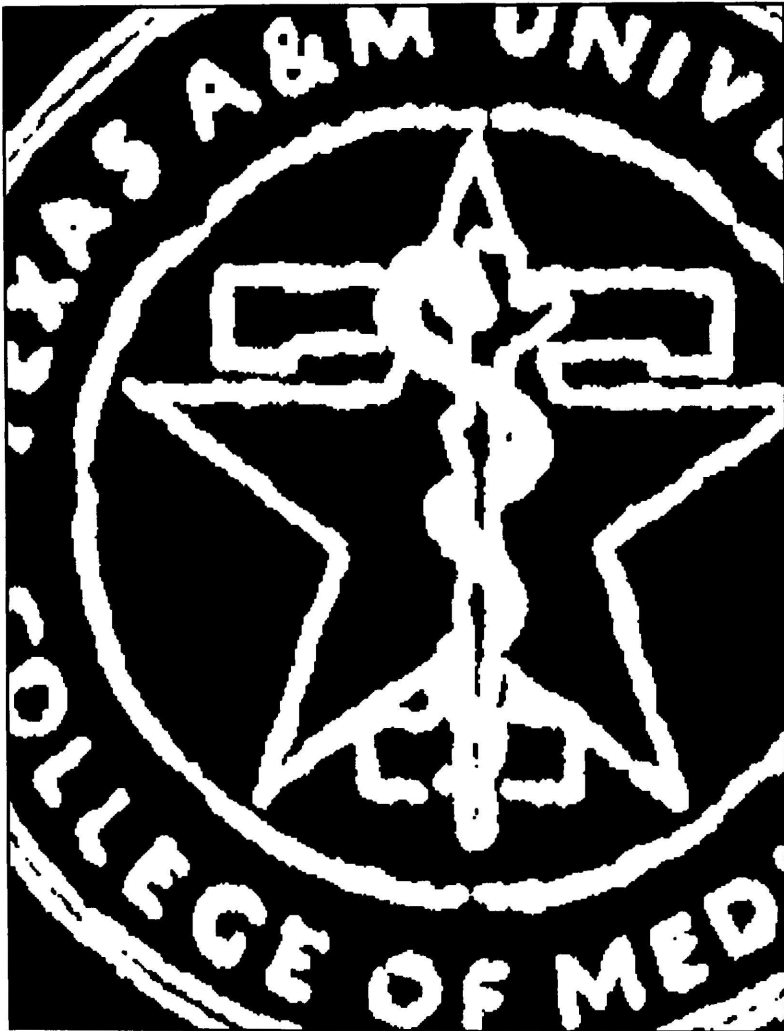
November 29	First day of classes
December 18- January 2, 1994	HOLIDAYS
January 3	Classes resume
March 4	Last day of classes
March 7-11	Winter term final examinations
March 12-20	SPRING HOLIDAYS

### Spring Term 1994

March 21	First day of classes
May 13	Last day of classes
May 16-20	Spring term final examination
June 8-9	USMLE Step 1 examination

# College Of Medicine Bulletin

# 1992-1994



Texas A&M University Health Science Center

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## DEPARTMENT OF VETERANS AFFAIRS

---

### **Olin E. Teague Veterans' Center, Temple**

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**TEXAS A&M UNIVERSITY**  
**COLLEGE OF MEDICINE**  
**1992-1993 *ACADEMIC CALENDAR***

The College of Medicine reserves the right to change the Academic Calendar at any time.

**First and Second Year Classes**  
**College Station Campus**

**Fall Term 1992**

August 17	Orientation and first day of classes for M-1 students.
August 31	First day of classes for M-2 students.
November 13	Last day of classes for M-1 and M-2 students.
November 16-20	Term final examinations.
November 21-29	Term end holiday.

**Winter Term 1992-1993**

November 30	First day of classes for M-1, M-2 students.
December 19- Jan 3, 1992	Christmas Holiday.
January 4	Classes resume for M-1, M-2 students.
March 5	Last day of classes for M-1, M-2 students.
March 8-12	Term final examinations.
March 13-21	Term end holiday.

**Spring Term 1993**

March 22	First day of classes for M-1, M-2 students.
May 14	Last day of classes for M-2 students.
May 17-21	Term final exams for M-2 students.
June 4	Last day of classes for M-1 students.
June 7-11	Term final exams for M-1 students.
June 8-9	USMLE Step I exam for M-2 students.



TEXAS A&M UNIVERSITY  
COLLEGE OF MEDICINE

Academic Calendar For M-3: 1992-93  
(Class of 1994)

Orientation:

**Week Date (First Day)**

- 1..... July 6, 1992
- 2..... July 13
- 3..... July 20
- 4..... July 27
- 5..... August 3
- 6..... August 10
- END OF 6 WEEK CLERKSHIPS**
- 7..... August 17
- 8..... August 24
- 9..... August 31
- 10..... September 7
- 11..... September 13
- 12..... September 21
- END OF 6 AND 12 WEEK CLERKSHIPS**
- 13..... September 28
- 14..... October 5
- 15..... October 12
- 16..... October 19
- 17..... October 26
- 18..... November 2
- END OF 6 WEEK CLERKSHIPS**
- 19..... November 9
- 20..... November 16
- 21..... November 23
- 22..... November 30
- 23..... December 7
- 24..... December 14
- END OF 6 AND 12 WEEK CLERKSHIPS**
- 25..... December 21-Vacation Week
- 26..... December 28-Vacation Week

**Week Date (First Day)**

- 27..... January 4, 1993
- 28..... January 11
- 29..... January 18
- 30..... January 25
- 31..... February 1
- 32..... February 7
- END OF 6 WEEK CLERKSHIPS**
- 33..... February 15
- 34..... February 22
- 35..... March 1
- 36..... March 8
- 37..... March 15
- 38..... March 22
- END OF 6 AND 12 WEEK CLERKSHIPS**
- 39..... March 29
- 40..... April 5
- 41..... April 12
- 42..... April 19
- 43..... April 26
- 44..... May 3
- END OF 6 WEEK CLERKSHIPS**
- 45..... May 10
- 46..... May 17
- 47..... May 24
- 48..... May 31
- 49..... June 7
- 50..... June 14
- END OF 6 AND 12 WEEK CLERKSHIPS AND END OF ACADEMIC YEAR**

**TEXAS A&M UNIVERSITY  
COLLEGE OF MEDICINE**

**Academic Calendar For M-4: 1992-93\*  
(Class of 1993)**

<b>Module</b>	<b>Week</b>	<b>Date (First Day)</b>	<b>Module</b>	<b>Week</b>	<b>Date (First Day)</b>
I.	1.	June 22, 1992	VII.	27.	December 21
	2.	June 29		28.	December 28
	3.	July 6		29.	January 4, 1993
	4.	July 13		30.	January 11
II.	5.	July 20	VIII.	31.	January 18
	6.	July 27		32.	January 25
	7.	August 3		33.	February 1
	8.	August 10		34.	February 8
III.	9.	August 17	IX.	35.	February 15
	10.	August 24		36.	February 22
	11.	August 31		37.	March 1
	12.	September 7		38.	March 8
IV.	13.	September 14	X.	39.	March 15
	14.	September 21		40.	March 22
	15.	September 28		41.	March 29
	16.	October 5		42.	April 5
V.	17.	October 12	XI.	43.	April 12
	18.	October 19		44.	April 19
	19.	October 26		45.	April 26
	20.	November 2		46.	May 3
VI.	21.	November 9	XII.	47.	May 10
	22.	November 16		48.	May 17
	23.	November 23			<b><i>DIDACTICS</i></b>
	24.	November 30			
		<b><i>RESIDENCY SEARCH</i></b>		49.	May 24
	25.	December 7		50.	May 31
	26.	December 14			<b><i>GRADUATION: June 5, 1993 FLEX EXAM - June 14-17, 1993</i></b>

\* 40 weeks are required; which include Didactics (weeks 49 and 50)

**TEXAS A&M UNIVERSITY**  
**COLLEGE OF MEDICINE**  
**1993-1994 *ACADEMIC CALENDAR***

The College of Medicine reserves the right to change the Academic Calendar at any time.

**First & Second Year Classes**  
**College Station Campus**

**Fall Semester 1993**

August 12-14	Orientation-Retreat, M-1 Class.
August 16	First day of Fall semester classes.
November 25-26	Thanksgiving Holiday.
December 10	Last day of Fall classes.
December 13-17	Fall semester final examinations.

**Spring Semester 1994**

January 3	First day of Spring classes.
March 14-18	Spring Holiday.
May 6	Last day of Spring classes.
May 9-13	Spring semester final examinations.
June 7-8	USMLE Step I exam for M-2 students.

TEXAS A&M UNIVERSITY  
COLLEGE OF MEDICINE

Academic Calendar For M-3: 1993-94  
(Class of 1995)

**Orientation:**

**Week Date (First Day)**

1..... July 5, 1993  
2..... July 12  
3..... July 19  
4..... July 26  
5..... August 2  
6..... August 9

**END OF 6 WEEK CLERKSHIPS**

7..... August 16  
8..... August 23  
9..... August 30  
10..... September 6  
11..... September 13  
12..... September 20

**END OF 6 AND 12 WEEK  
CLERKSHIPS**

13..... September 27  
14..... October 4  
15..... October 11  
16..... October 18  
17..... October 25  
18..... November 1

**END OF 6 WEEK CLERKSHIPS**

19..... November 8  
20..... November 15  
21..... November 22  
22..... November 29  
23..... December 6  
24..... December 13

**END OF 6 AND 12 WEEK  
CLERKSHIPS**

25..... December 20-Vacation Week  
26..... December 27-Vacation Week

**Week Date (First Day)**

27..... January 3, 1994  
28..... January 10  
29..... January 17  
30..... January 24  
31..... January 31  
32..... February 7

**END OF 6 WEEK CLERKSHIPS**

33..... February 14  
34..... February 21  
35..... February 28  
36..... March 7  
37..... March 14  
38..... March 21

**END OF 6 AND 12 WEEK  
CLERKSHIPS**

39..... March 28  
40..... April 4  
41..... April 11  
42..... April 18  
43..... April 25  
44..... May 2

**END OF 6 WEEK CLERKSHIPS**

45..... May 9  
46..... May 16  
47..... May 23  
48..... May 30  
49..... June 6  
50..... June 13

**END OF 6 AND 12 WEEK  
CLERKSHIPS AND END OF  
ACADEMIC YEAR**

**TEXAS A&M UNIVERSITY  
COLLEGE OF MEDICINE**

**Academic Calendar For M-4: 1993-94\*  
(Class of 1994)**

<b>Module</b>	<b>Week</b>	<b>Date (First Day)</b>	<b>Module</b>	<b>Week</b>	<b>Date (First Day)</b>
I.	1.	June 21, 1993	VIII.	29.	January 3, 1994
	2.	June 28		30.	January 10
	3.	July 5		31.	January 17
	4.	July 12		32.	January 24
II.	5.	July 19	IX.	33.	January 31
	6.	July 26		34.	February 7
	7.	August 2		35.	February 14
	8.	August 9		36.	February 21
III.	9.	August 16			<b><i>DIDACTICS</i></b>
	10.	August 23			
	11.	August 30		37.	February 28
	12.	September 6		38.	March 7
IV.	13.	September 13		39.	March 14
	14.	September 20			<b><i>SPRING BREAK/MATCH:</i></b>
	15.	September 27			
	16.	October 4		40.	March 21
V.	17.	October 11			<b><i>USMLE: 29-30</i></b>
	18.	October 18			
	19.	October 25		41.	March 28
	20.	November 1			
VI.	21.	November 8	X.	42.	April 4
	22.	November 15		43.	April 11
	23.	November 22		44.	April 18
	24.	November 29		45.	April 25
VII.	25.	December 6	XI.	46.	May 2
	26.	December 13		47.	May 9
	27.	December 20		48.	May 16
	28.	December 27		49.	May 23
					<b><i>GRADUATION: June 4, 1994</i></b>

\* 40 weeks of electives are required; which include Didactics (weeks 37 and 38)

## INTRODUCTION

The Texas A&M College of Medicine is chartered to grant the degrees of Bachelor of Science, Doctor of Medicine, Master of Science, and Doctor of Philosophy.

The Bachelor of Science degree is awarded to medical students who satisfactorily complete the Texas A&M University core curriculum requirements for a baccalaureate degree and the first six terms in the medical curriculum.

The program of instruction for the Doctor of Medicine degree consists of a four year curriculum and is fully accredited by the Liaison Committee on Medical Education. The first two years of instruction take place in College Station, Texas, on the campus of Texas A&M University. The remaining two years of instruction take place primarily in Temple, Texas, at the Scott and White Memorial Hospital and Clinic and the Olin E. Teague Veterans' Center.

The Doctor of Philosophy degree in medical sciences is primarily taught on the College Station campus. The degree takes a multidisciplinary approach to basic science study. Students declare an area of research interest upon entering the program, and their course of study is planned with the appropriate graduate advisor. The Ph.D. program entails a minimum of 96 semester hours; and, 60 hours or more are taken in formal coursework from at least four discipline areas.

The College of Medicine calendar is independent from other University schedules. The College Station campus academic year is divided into three terms. The Temple campus academic year is split into two terms.

This bulletin is published to acquaint the public with the College's purposes, curriculum, research activities, and services. It does not duplicate other publications that describe College of Medicine programs and services in detail. References within this bulletin to other publications and the list of addresses printed inside the cover provide the information needed to obtain other publications of interest.

The provisions of this bulletin do not constitute a contract, expressed or implied, between any applicant, student, or faculty member and the Texas A&M University College of Medicine or the Texas A&M University System. The College of Medicine reserves the right to withdraw courses at any time, change fees, calendar, curriculum, graduation procedures, and any other requirements affecting students. Changes will become effective whenever the proper authorities so determine and will apply to both prospective students and those already enrolled.



# FACULTY

## TEXAS A&M UNIVERSITY COLLEGE OF MEDICINE (As of March 27, 1992)

Figures in parentheses indicate date of first appointment on the university staff and date of appointment to present position, respectively. Asterisks indicate faculty members who are former students from the Texas A&M University College of Medicine.

**Abbott, Elton D., Jr.**, *Adjunct Assistant Professor of Human Anatomy and Medical Neurobiology* (1986, 1989) B.S., Oklahoma State University, 1969; B.S., University of Oklahoma, 1972; M.S., University of Oklahoma, 1973; D.E.D., Texas A&M University, 1983.

**Acker, Julian H.**, *Professor Emeritus of Internal Medicine*. (1976, 1986) B.S., Southwestern Methodist University, 1940; M.D., Baylor College of Medicine, 1944.

**Adams, H. Ray**, *Associate Professor of Pathology and Laboratory Medicine*. (1977, 1981) B.S., Texas A&M University, 1962; M.S., 1965; Ph.D., University of Texas Southwestern Medical School, 1972.

**Adams, Louis W.**, *Associate Professor of Surgery*. (1984) B.A., Stanford University, 1964; M.D., Baylor College of Medicine, 1968.

**Aguirre, Roberto I.**, *Assistant Professor of Internal Medicine*. (1987) B.S., University of Texas at Austin, 1979; M.D., University of Texas Medical Branch at Galveston, 1983.

**Ahlgren, E. Warner**, *Professor of Surgery*. (1977, 1981) B.S., Franklin and Marshall College, 1958; M.D., SUNY Buffalo School of Medicine, 1962.

**Akins, Charles W.**, *Assistant Professor of Surgery*. (1989) B.S., Mississippi State University at Jackson, 1963; M.D., University of Mississippi School of Medicine, 1967.

**Alexander, Phillip R.**, *Clinical Assistant Professor of Internal Medicine*. (1978, 1981) B.M., Curtis Institute of Music, 1966; M.D., Baylor College of Medicine, 1971.

**Alford, Richard D.**, *Clinical Assistant Professor of Surgery*. (1992) B.S., University of Texas at Arlington, 1979; M.D., University of Texas Medical Branch at Galveston, 1984.

**Allen, William R.**, *Professor of Pediatrics*. (1982, 1988) M.D., University of Mississippi School of Medicine, 1972.

**Allison, Dale C.**, *Clinical Assistant Professor of Family and Community Medicine*. (1981) B.A., University of Texas at Austin, 1970; M.D., University of Texas Medical Branch at Galveston, 1974.

**Althaus, Rebecca W.**, *Clinical Instructor of Medical Biochemistry and Genetics*. (1991) B.S., Baylor University, 1974; M.S., Texas Woman's University, 1977.

**Anderson, Charles R.**, *Clinical Assistant Professor of Obstetrics and Gynecology*. (1979, 1981) A.S., York Junior College, 1968; B.S., Harding College, 1970; M.D., University of Nebraska School of Medicine, 1974.

**Anderson, Frank G., Jr.**, *Clinical Professor of Surgery*. (1979, 1981) B.S., Texas A&M University, 1950; M.D., University of Texas Medical Branch at Galveston, 1954.

**Anderson, Fred G.**, *Clinical Associate Professor of Surgery*. (1979, 1981) B.A., University of Texas, 1958; M.D., University of Texas Medical Branch at Galveston, 1962.

**Anderson, Lawrence L.**, *Assistant Professor of Internal Medicine*. (1991) B.S., Washington State University, 1979; M.D., University of The Health Sciences, 1984.



**Andrew, William F.,** *Assistant Professor of Surgery.* (1989) B.S., University of Missouri at Columbia, 1942; M.D., Washington University Medical School, Missouri, 1945.

**Andrews, Stephen J.,** *Assistant Professor of Obstetrics and Gynecology.* (1990). B.S., John Carroll University at Ohio, 1981; M.D., Case Western Reserve at Ohio, 1985.

**\*Appleton, Margaret P.,** *Instructor in Obstetrics and Gynecology.* (1991) B.S., Texas A&M University, 1984; M.D., Texas A&M University College of Medicine, 1988.

**Arcilla, Juanita R.,** *Clinical Lecturer in Internal Medicine.* (1989) B.A., University of St. Thomas at Philadelphia, 1964; M.D., Far Eastern University, 1970.

**Asbury, John R.,** *Associate Professor of Pediatrics.* (1977, 1981) B.S., Austin College, 1965; M.D., Baylor College of Medicine, 1969.

**Ashcraft, Ray,** *Associate Professor of Surgery.* (1988) B.S., North Texas State University, 1958; D.D.S., Baylor College of Dentistry, 1963.

**Avots-Avotins, Andrejs E.,** *Assistant Professor of Internal Medicine.* (1989) B.A., University of Texas, 1975; Ph.D., University of Texas Medical Branch at Galveston, 1980; M.D., University of Texas Medical Branch at Galveston, 1984.

**Baden, Wayne F.,** *Professor of Obstetrics and Gynecology.* (1981, 1987) B.S., Coe College, 1940; M.D., University of Iowa Medical School, 1943.

**Bains, Louis W.,** *Assistant Professor of Psychiatry and Behavioral Science.* (1990) B.A., University of Texas at Austin, 1950; M.D., University of Texas Medical Branch at Galveston, 1953.

**Baisden, Clinton E.,** *Associate Professor of Surgery.* (1991) B.S., USAF Academy, 1971; M.D., University of Oklahoma, 1975.

**Baker, Dudley P.,** *Professor of Obstetrics and Gynecology.* (1977, 1981) B.A., Southern Methodist University, 1958; M.D., Louisiana State University School of Medicine at New Orleans, 1962.

**Bame, Shirley I.,** *Assistant Professor of Family and Community Medicine and of Architecture.* (1984, 1988) B.S.N., University of Michigan School of Nursing, 1969; M.S., Boston University School of Nursing, 1972; Ph.D., University of Michigan, 1985.

**Barenholtz, Lawrence,** *Assistant Professor of Internal Medicine.* (1991) B.A., Wayne State University, 1965; M.D., University of Michigan, 1969.

**Barnes, Robert N.,** *Professor of Internal Medicine.* (1977, 1983) B.S., University of Oklahoma, 1951; M.D., University of Oklahoma College of Medicine, 1954.

**Bartels, W. George,** *Assistant Professor of Family and Community Medicine.* (1983) B.A., Texas Lutheran College, 1974; M.D., University of Texas Health Science Center at San Antonio, 1980.

**Bartold, Stephen P.,** *Assistant Professor of Radiology.* (1989) M.D., University of Michigan, 1977.

**Barton, David D.,** *Assistant Professor of Internal Medicine.* (1986) B.S., University of Texas College of Pharmacy at Austin, 1978; M.D., University of Texas Medical School at Houston, 1982.

**Baskerville, Jerry R.,** *Assistant Professor of Internal Medicine.* (1990) B.S., University of Alberta, Edmonton, 1974; M.D., 1976.

**Bassel, Maria E.,** *Assistant Professor of Internal Medicine.* (1979, 1984) B.S., Institute of Technology, 1950; M.D., University of Nuevo Leon, 1956.

**Baum, R. Allen,** *Instructor in Internal Medicine.* (1989) B.A., Austin College, 1983; M.D., University of Texas Medical Branch at Galveston, 1987.

**Bauserman, Steven C.,** *Professor of Pathology and Laboratory Medicine and of Surgery.* (1986, 1990) B.A., University of Iowa, 1959; M.D., University of Iowa College of Medicine, 1963.

**Bayouth, LaNoard M.,** *Clinical Instructor in Internal Medicine.* (1989) B.S., Angelo State University, 1983; M.D., University of Texas Medical Branch at Galveston, 1987.

**Bean, Jolene D.**, *Associate Professor of Surgery*. (1985, 1991) M.D., Friedrich Wilhelm University of Bonn (West Germany), 1979; Ph.D., University of Bonn Institute of Physiology (West Germany), 1980.

**Beaver, Harold G.**, *Instructor in Surgery*. (1981) B.A., Baylor University, 1956; M.A., State University of Iowa, 1961.

**Beesinger, David D.**, *Clinical Assistant Professor of Surgery*. (1988) B.A., Texas Technological College, 1969; M.D., University of Texas Medical School at San Antonio, 1973.

**Beissner, Robert S.**, *Assistant Professor of Pathology and Laboratory Medicine*. (1987, 1988) B.S., Texas Tech University, 1975; Ph.D., Rice University, 1979; M.D., University of Texas Medical School at San Antonio, 1984

**Bellamy, Gail R.**, *Associate Professor of Family and Community Medicine*. (1990) B.A., University of California at Los Angeles, 1973; M.A., Pepperdine University, 1978; Ph.D., Johns Hopkins University, 1984.

**Bellens, Edward E.**, *Associate Professor of Surgery*. (1979) M.D., Catholic University of Louvain (Belgium), 1959.

**Benbow, Robert H.**, *Clinical Professor of Obstetrics and Gynecology*. (1978) M.D., Tulane University School of Medicine, 1945.

**Benold, Stephen D.**, *Clinical Assistant Professor of Family and Community Medicine*. (1981) B.A., Rice University, 1971; M.D., University of Texas Southwestern Medical School, 1975.

**Benson, Jeffrey A.**, *Assistant Professor of Family and Community Medicine*. (1989) B.A., Harvard University, 1976; M.A., University of California at Berkeley, 1976; M.D., Harvard Medical School, 1985.

**Best, Edward B., Sr.**, *Associate Professor of Radiology*. (1979) B.S., Hendrix College, 1949; M.D., University of Arkansas College of Medicine, 1953.

**Birkholz, Howard**, *Assistant Professor of Surgery*. (1987) D.D.S., Marquette University School of Dentistry, 1965.

**Bittenbinder, Timothy M.**, *Assistant Professor of Surgery*. (1989) B.S., University of Texas at Austin, 1980; M.D., University of Texas Southwestern Medical Branch at Dallas, 1985.

**Black, Samuel H.**, *Professor of Medical Microbiology and Immunology*. (1975, 1987) B.S., Lebanon Valley College, 1952; M.S., University of Michigan, 1958; Ph.D., University of Michigan, 1961.

**Black, William B.**, *Assistant Professor of Surgery*. (1988) D.D.S., Baylor College of Dentistry, 1976.

**\*Bledsoe, Maya B.**, *Clinical Instructor in Internal Medicine*. (1989) B.A. Rice University, 1981; M.D., Texas A&M University College of Medicine, 1987.

**Blevins, John K.**, *Assistant Professor of Pediatrics*. (1990) B.A., University of Texas, 1970; M.D., University of Texas Medical School at Houston, 1973.

**Bodden, Jack L.**, *Associate Professor of Psychiatry and Behavioral Science and Adjunct Associate Professor of Psychology*. (1981, 1991) B.A., Southwestern University, 1965; M.A., The Ohio State University, 1967; Ph.D., The Ohio State University, 1969.

**Bohne, Henry E.**, *Clinical Assistant Professor of Surgery*. (1986) B.S., Texas A&M University, 1972; M.D., University of Texas Medical Branch at Galveston, 1976.

**Bollinger, Bruce C.**, *Assistant Professor of Internal Medicine*. (1982) B.S., George Washington University, 1969; M.D., George Washington University School of Medicine, 1973.

**Bolton, Paul D., Jr.**, *Assistant Professor of Internal Medicine*. (1980) B.A., Austin College, 1971; M.D., University of Texas Medical Branch at Galveston, 1975.

**\*Bonds, James V.**, *Assistant Professor of Internal Medicine*. (1991) B.S., Baylor University, 1983; M.D., Texas A&M University College of Medicine, 1988.

- Bonds, Sheila G.**, *Assistant Professor of Obstetrics and Gynecology*. (1991) B.S., Baylor University, 1983; M.D., University of Texas Medical School at San Antonio, 1987.
- Bonnet, John D.**, *Professor of Internal Medicine*. (1977, 1981) B.S., University of Illinois, 1948; M.D., Johns Hopkins University, 1952.
- Borg, Lesley M.**, *Clinical Assistant Professor of Medical Biochemistry and Genetics*. (1991) MbCHB, Otago University Medical School, New Zealand, 1971; B.S., Auckland University, New Zealand, 1976; M.D., Otago University Medical School, New Zealand, 1983.
- Bourland, Philip D.**, *Associate Professor of Radiology*. (1979) B.S., Baylor University, 1964; M.S., Baylor University, 1966; Ph.D., Baylor University, 1970.
- Bowling, John R.**, *Assistant Professor of Internal Medicine*. (1981) B.A., University of Oklahoma, 1971; M.D., University of Oklahoma College of Medicine, 1975.
- Boysen, Dirk L.**, *Assistant Professor of Surgery*. (1986) B.S., University of Minnesota, 1976; M.D., University of Minnesota School of Medicine, 1980.
- Braden, Stephen A.**, *Clinical Assistant Professor of Family and Community Medicine*. (1982) B.S., Southwest Texas State University, 1975; M.D., University of Texas Southwestern Medical School, 1979.
- Braeuer, Norbert R.**, *Assistant Professor of Radiology*. (1990) B.S., Lamar State University, 1961; M.D., University of Texas Southwestern Medical School at Dallas, 1966.
- Brakemeier, Robert H.**, *Associate Professor of Obstetrics and Gynecology*. (1979, 1981) B.S., Albany College of Pharmacy, 1965; M.D., Albany Medical College, 1969.
- Brandon, Ronald A.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1979, 1981) B.S., Concordia College, 1961; M.S., University of North Dakota, 1966.
- Brandt, Stephen K.**, *Assistant Professor of Surgery and of Pediatrics*. (1986) D.D.S., University of Texas Dental Branch at Houston, 1975.
- Brannon, David E.**, *Clinical Assistant Professor of Internal Medicine*. (1978) M.D., University of Texas Medical Branch at Galveston, 1972.
- Brasher, George W.**, *Professor of Internal Medicine and of Pediatrics*. (1977) B.A., Lambuth College, 1959; M.D., University of Tennessee College of Medicine, 1961.
- Brawn, Peter N.**, *Assistant Professor of Pathology and Laboratory Medicine*. (1986) B.S., University of Washington, 1970; M.D., University of Washington School of Medicine, 1974.
- Brenner-Wild, Ann L.**, *Clinical Assistant Professor of Surgery*. (1988) B.S., University of Houston, 1970; O.D., University of Houston, 1972.
- Brewer, Luther M.**, *Associate Professor of Internal Medicine*. (1977) B.S., University of Texas at Austin, 1957; M.D., University of Texas Southwestern Medical School, 1961.
- Brindley, George V.**, *Professor Emeritus of Surgery*. (1977, 1984) B.A., Rice University, 1935; M.S., University of Minnesota, 1944; M.D., University of Texas Medical Branch at Galveston, 1937.
- Brindley, George W.**, *Assistant Professor of Surgery*. (1986) B.A., University of Texas at Austin, 1975; B.S., Texas A&M University, 1976; M.D., University of Texas Medical Branch at Galveston, 1981.
- Brindley, Glen O.**, *Professor of Surgery*. (1981, 1991) A.A., Temple Junior College, 1969; B.A., University of Texas at Austin, 1971; M.D., University of Texas Medical Branch at Galveston, 1975.
- Brindley, Hanes H., Jr.**, *Assistant Professor of Surgery*. (1981) B.A., University of Texas at Austin, 1965; M.D., University of Texas Medical Branch at Galveston, 1972.
- Brooks, Gary R.**, *Associate Professor of Psychiatry and Behavioral Science*. (1979, 1985) B.S., Boston State College, 1969; Ph.D., University of Texas at Austin, 1976.
- Brossman, Gene F.**, *Clinical Associate Professor of Radiology*. (1981) B.S., Texas A&M University, 1963; M.D., University of Texas Medical Branch at Galveston, 1967.

**Brown, Edward C.**, *Assistant Professor of Internal Medicine*. (1990) B.A., University of Texas at Arlington, 1977; M.D., University of Texas Southwestern Medical School at Dallas, 1981.

**Browne, Barry A.**, *Assistant Professor of Internal Medicine and of Pediatrics*. (1990) B.A., Southwestern University, 1967; Pharm.D., University of Texas Medical School at San Antonio, 1987.

**Bryan, John N.**, *Clinical Associate Professor of Family and Community Medicine*. (1981) A.B., Baylor University, 1941; M.D., Baylor College of Medicine, 1944.

**Bryson, Laurance M.**, *Assistant Professor of Internal Medicine*. (1991) B.S., George Washington University, 1960; M.D., University of Arkansas School of Medicine, 1965.

**Buechler, Bruce R.**, *Assistant Professor of Surgery*. (1990) B.A., Rice University, 1977; M.D., University of Texas Health Science Center at San Antonio, 1982.

**Burford, Kathleen H.**, *Clinical Assistant Professor of Pediatrics*. (1981) B.A., University of Texas, 1973; M.D., Texas Tech University School of Medicine, 1976.

**Burghardt, Robert C.**, *Professor of Medical Physiology and of Veterinary Anatomy*. (1990) B.S., University of Michigan, 1969; M.S., Wayne State University, 1973; Ph.D., Wayne State University, 1976.

**Burke, Jack D., Jr.**, *Professor and Head of Psychiatry and Behavioral Science*. (1991) B.A., Harvard College, 1970; M.D., Harvard Medical School, 1974; M.P.H., Harvard School of Public Health, 1979.

**Burke, Kimberly C.**, *Assistant Professor of Pediatrics*. (1992) B.S., Virginia Tech, 1984; M.S., Georgetown University, 1988.

**Busbee, David L.**, *Professor of Medical Physiology, of Medical Biochemistry and Genetics and of Veterinary Anatomy*. (1990) B.S., Wichita State University, 1965; M.S., Wichita State University, 1968; Ph.D., University of Texas, 1971.

**Cabrera, Domingo J.**, *Clinical Assistant Professor of Family and Community Medicine*. (1979) B.S., Institute of Secondary Education of Havana (Cuba), 1946; M.D., University of Havana School of Medicine (Cuba), 1953.

**Cain, Phillip T.**, *Program Director and Associate Professor of Internal Medicine*. (1979, 1987) B.S., Texas Christian University, 1970; M.D., University of Texas Medical Branch at Galveston, 1974.

**Canales, Luis**, *Associate Professor of Radiology*. (1987) B.S., University of Puerto Rico, 1954; M.D., University of Puerto Rico, 1958.

**Cannon, Marvin S.**, *Associate Professor of Human Anatomy and Medical Neurobiology*. (1976) B.S., University of Toledo, 1960; M.S., 1965; Ph.D., Ohio State University College of Medicine, 1969.

**Cantees, Kimberly K.**, *Clinical Assistant Professor of Surgery*. (1991) B.S., Virginia Polytechnic Institute and State University, 1981; M.D., Medical College of Pennsylvania, 1985.

**Capen, Charles V.**, *Associate Professor of Obstetrics and Gynecology*. (1984) B.S., University of Tennessee, 1970; M.D., University of Tennessee College of Medicine, 1973.

**Caperton, Clyde M.**, *Clinical Associate Professor of Internal Medicine*. (1978) M.D., University of Texas Southwestern Medical School, 1955.

**Caraveo, Juan**, *Associate Professor of Internal Medicine*. (1979, 1987) B.S., Instituto Regional de Chihuahua, 1962; M.D., Universidad Autonoma de Chihuahua, 1969.

**Cardenas, Carlos J.**, *Instructor in Internal Medicine*. (1988) B.A., Sherman College, 1981; M.D., University of Texas Medical School at Galveston, 1985.

**Carlson, Robert G.**, *Associate Professor of Surgery*. (1986) B.A., University of Minnesota, 1950; M.D., University of Minnesota Medical School, 1954; M.S., University of Minnesota, 1969.

**Carpentier, William R.**, *Associate Professor of Radiology*. (1979, 1981) M.D., University of British Columbia, 1961; M.S., Ohio State University, 1964.

**Carpentier, Wilma S.**, *Assistant Professor of Family and Community Medicine*. (1990) B.S., Mary Hardin-Baylor College at Belton, 1976; M.S., Texas Women's University, 1977; Ph.D., University of Texas, 1989.

**Carter, John B.**, *Assistant Professor of Surgery*. (1990) M.D., University of Texas Medical Branch at Galveston, 1980.

**\*Castiglioni, Aldo J. Jr.**, *Clinical Assistant Professor of Psychiatry and Behavioral Science*. (1992) B.A., University of Texas at Austin, 1975; M.D., Texas A&M University College of Medicine, 1987; Ph.D., University of Texas Medical Branch at Galveston, 1980.

**Cauthen, Don B.**, *Professor and Head of Family and Community Medicine*. (1980) B.A., Southern Methodist University, 1966; M.D., University of Texas Southwestern Medical School, 1970.

**Caylor, Art B.**, *Assistant Professor of Family and Community Medicine*. (1987) B.S., University of Texas, 1977; M.D., University of Texas Medical School at San Antonio, 1981.

**Champney, Thomas H.**, *Associate Professor of Human Anatomy and Medical Neurobiology*. (1985, 1991) B.S., Southampton College of Long Island University, 1979; M.A., Colgate University, 1980; Ph.D., University of Texas Medical School at San Antonio, 1984.

**Chandler, James B. Jr.**, *Associate Professor of Internal Medicine*. (1979, 1984) B.S., University of Georgia, 1954; M.D., Medical College of Georgia, 1960.

**Chatham, Valerie D.**, *Assistant Professor of Internal Medicine*. (1988) B.S., Lamar University, 1974; M.D., University of Texas Medical School at San Antonio, 1985.

**Cheema, Kausar S.**, *Clinical Assistant Professor of Family and Community Medicine and of Pediatrics*. (1989) MBBS, Punjab University, 1970; M.D., ECFMG, 1981.

**Chen, Scott H.**, *Associate Professor of Internal Medicine*. (1977, 1981) B.S., National Taiwan University, 1960; M.D., National Taiwan University College of Medicine, 1965.

**Cheruku, Rajanarender R.**, *Assistant Professor of Internal Medicine*. (1991) B.S., Kakatiya Medical College of India, 1977; M.D., 1982.

**Cheung, Alan Y. C.**, *Associate Professor of Radiology*. (1988) M.B.B.S., University of Hong Kong, 1970.

**Chilian, William M.**, *Associate Professor of Medical Physiology*. (1987, 1991) B.A., Saint Olaf College, 1974; M.S., Texas Tech University, 1976; Ph.D., University of Missouri, 1980.

**Chintapalli, Girija S.**, *Associate Professor of Psychiatry and Behavioral Science*. (1989, 1992) MBBS, Guntur Medical College of India, 1965; M.D., 1969.

**Chiou, George C. Y.**, *Professor and Head of Medical Pharmacology and Toxicology, Clinical Professor of Surgery and Director of The Institute for Ocular Pharmacology*. (1978, 1990) B.S., National Taiwan University, 1957; M.S., National Taiwan University, 1960; Ph.D., Vanderbilt University School of Medicine, 1967.

**Chlapek, Ben H.**, *Assistant Professor of Internal Medicine*. (1982) B.S., University of Texas, 1962; D.O., University of Health Science College of Osteopathic Medicine at Kansas City, 1975.

**Christoff, Nicholas**, *Professor of Internal Medicine*. (1979, 1984) B.S., Purdue University, 1949; M.D., University of Chicago School of Medicine at Pritzker, 1953.

**Chumak, Bogdan A.**, *Assistant Professor of Family and Community Medicine*. (1988) B.A., University of California at Los Angeles, 1973; M.D., University of Guadalajara School of Medicine, 1980; Internship, Albert Einstein Medical Center, 1981.

**Cipriani, Cheryl A.**, *Assistant Professor of Pediatrics and Surgery*. (1984, 1989) B.S., Abilene Christian College, 1975; M.D., University of Texas Medical Branch at Galveston, 1979.

**Cisneros, Alfredo A.**, *Assistant Professor of Family and Community Medicine*. (1991) M.D., National University of Nicaragua, 1966.

**\*Clanton, Craig W.**, *Program Director and Assistant Professor of Family and Community Medicine*. (1985, 1988) B.S., Texas A&M University, 1980; M.D., Texas A&M University College of Medicine, 1982.

- Clements, Jamie H.**, *Professor of Humanities in Medicine*. (1982) B.A., University of Texas, 1952; L.L.B., J.D., University of Texas School of Law, 1955.
- Coburn, Thomas C.**, *Assistant Professor of Internal Medicine*. (1981) B.A., University of Ottawa, 1970; M.D., University of Ottawa School of Medicine, 1974.
- Cochran, R. Glenn, Jr.**, *Clinical Assistant Professor of Family and Community Medicine*. (1979, 1987) B.A., Baylor University, 1967; M.D., Baylor College of Medicine, 1971.
- Cocke, William M., Jr.**, *Clinical Professor of Surgery*. (1989) B.S., Texas A&M University, 1956; M.D., Baylor University College of Medicine, 1960.
- Coffield, K. Scott**, *Professor of Surgery*. (1981, 1991) B.S., Millsaps College, 1966; M.D., University of Mississippi School of Medicine, 1971.
- Coffman, Mark R.**, *Clinical Assistant Professor of Surgery*. (1989) B.S., USAF Academy, 1973; M.D., Baylor College of Medicine, 1976.
- Coleman, Lawrence W., Jr.**, *Clinical Associate Professor of Surgery*. (1978, 1981) B.S., Baylor University, 1958; M.D., University of Texas Medical Branch at Galveston, 1962.
- \*Coles, Stuart L.**, *Assistant Professor of Pediatrics and of Family and Community Medicine*. (1989, 1991) B.S., Texas A&M University, 1983; M.D., Texas A&M University College of Medicine, 1985.
- Conklin, Richard H.**, *Clinical Assistant Professor of Family and Community Medicine*. (1991) M.S., Syracuse University, 1963; M.D., Upstate Medical Ct. S.U.N.Y., 1969; Ph.D., Thomas Jefferson University, 1970.
- Conkling, William S.**, *Professor of Pediatrics*. (1976) B.A., Texas Christian University, 1945; M.D., University of Texas Medical Branch at Galveston, 1949.
- Conley, Charles C.**, *Clinical Professor of Pathology and Laboratory Medicine*. (1983) B.A., University of Minnesota, 1944; B.S., University of Minnesota, 1945; M.D., University of Minnesota Medical School, 1947.
- Cooney, Edward A.**, *Assistant Professor of Family and Community Medicine*. (1987) B.S., Wilkes College, 1980; M.D., Hahnemann University School of Medicine, 1980.
- Cooney, John A.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1982) B.S., St. Lawrence University, 1968; M.A., Eastern Kentucky University, 1971; Ph.D., University of Texas, 1977.
- Cooper, Oliver C.**, *Deputy Head and Professor of Family and Community Medicine*. (1979, 1981) B.S., Union University, 1943; M.D., University of Tennessee College of Medicine, 1946.
- Cortes, Leslie L.**, *Assistant Professor of Internal Medicine*. (1991) B.A., University of Texas at Austin, 1967; M.A., 1970; M.D., Baylor College of Medicine, 1979.
- Cortes, Robert**, *Assistant Professor of Family and Community Medicine*. (1986) B.S., Baylor University, 1976; M.D., Baylor College of Medicine, 1979.
- Couchman, Glen R.**, *Assistant Professor of Family and Community Medicine*. (1982) B.S., University of Iowa, 1974; M.D., University of Iowa College of Medicine, 1979.
- Coulter, John B., III**, *Associate Professor of Pathology and Laboratory Medicine and of Surgery*. (1977, 1990) B.S., University of Texas at Arlington, 1966; Ph.D., Baylor University, 1970.
- Cramm, Carl J., Jr.**, *Assistant Professor of Internal Medicine*. (1981) B.A., University of Kansas, 1948; M.D., University of Kansas College of Health Science Hospital, 1951.
- Crisp, Darrell E.**, *Associate Professor of Internal Medicine and of Pediatrics*. (1982, 1985) B.A., Trinity University, 1972; M.D., University of Texas Medical School, 1975.
- Cross, Michael J.**, *Instructor in Surgery*. (1991) B.S., University of Arkansas, 1981; M.D., University of Nebraska Medical Center, 1987.
- Crumpler, Paul H.**, *Assistant Professor of Family and Community Medicine*. (1987) B.A., University of Texas, 1977; M.D., Texas Tech University Health Sciences Center School of Medicine, 1982.

**Cryar, A. Keith**, *Assistant Professor of Internal Medicine*. (1988) B.S., University of Alabama, 1978; M.D., University of Alabama Medical School, 1982.

**Culp, Kim S.**, *Associate Professor of Internal Medicine*. (1982, 1986) B.S., University of Idaho, 1972; M.D., University of Minnesota Medical School, 1976.

**Cummings, Robert D.**, *Assistant Professor of Family and Community Medicine*. (1986) B.S., University of Texas, 1956; M.D., University of Texas Medical Branch at Galveston, 1964.

**Cunningham, Richard D.**, *Professor of Surgery*. (1979, 1981) B.S., University of Minnesota, 1955; M.D., University of Minnesota Medical School, 1957; M.S., Mayo Medical School, 1964.

**Cusick, Michael E.**, *Assistant Professor of Medical Biochemistry and Genetics*. (1988) B.S., Yale University, 1976; M.S., Harvard University Graduate School, 1980; Ph.D., Harvard University Graduate School, 1983.

**Custer, Monford D., III**, *Assistant Professor of Surgery and of Pediatrics*. (1989, 1991) B.S., University of Denver, 1974; M.S., Virginia Commonwealth University, 1977; M.D., Medical College of Virginia, 1981.

**Dabbas, Bashar**, *Assistant Professor of Pathology and Laboratory Medicine*. (1991) B.S., Damascus University School of Medicine, Syria, 1980; M.D., 1983.

**Daniel, Carol A.**, *Associate Professor of Pediatrics and of Medical Biochemistry and Genetics*. (1981, 1985) B.S., Bethany Nazarene College, 1968; M.D., University of Texas Medical Branch at Galveston, 1973.

**Daniel, Crawford J.**, *Professor of Family and Community Medicine*. (1981, 1987) B.A., University of Texas, 1948; M.D., University of Texas Medical Branch at Galveston, 1951.

**Daniel, James F.**, *Associate Professor of Pediatrics*. (1981, 1984) B.S., Pasadena College, 1968; M.D., Loma Linda University College of Medicine, 1972.

**Dave, Nalini M.**, *Clinical Assistant Professor of Internal Medicine*. (1983) M.B.B.S., Maulana Azade Medical College, Delhi University (India), 1972.

**\*David, David R.**, *Clinical Assistant Professor of Family and Community Medicine*. (1991) B.S., Texas A&M University, 1980; M.D., Texas A&M University College of Medicine, 1982.

**Davis, George E.**, *Assistant Professor of Pathology and Laboratory Medicine*. (1991) B.S., Arizona State University, 1979; M.D., University of California, 1986; Ph.D., University of California, 1986.

**Davis, John T.**, *Associate Professor of Radiology*. (1981) B.A., University of Texas, 1950; M.D., University of Texas Medical Branch at Galveston, 1954.

**Davis, Larry J.**, *Assistant Professor of Internal Medicine*. (1991) B.S., Texas A&M University, 1973; M.D., University of Texas Southwestern Medical School, 1977.

**Davis, Michael J.**, *Associate Professor of Medical Physiology*. (1985, 1991) B.S., University of California at Davis, 1975; Ph.D., University of Nebraska Medical Center, 1979.

**\*Davis, P. Scott**, *Clinical Assistant Professor of Internal Medicine*. (1989) B.S., University of Houston, 1976; M.D., Texas A&M University College of Medicine, 1985.

**Davis, Phil**, *Professor of Internal Medicine and of Family and Community Medicine*. (1977) M.D., Baylor College of Medicine, 1947.

**Davis, R. Douglas**, *Assistant Professor of Surgery*. (1990) B.A., Trinity University, 1978; M.D., University of Texas Medical School, 1982.

**Davis, William R.**, *Associate Professor of Internal Medicine*. (1991) B.S., Texas A&M University, 1972; M.D., Baylor College of Medicine, 1976.

**Delterman, Louis H., Jr.**, *Associate Professor of Radiology*. (1979, 1981) B.S., University of Texas, 1954; M.A., University of Texas, 1957; Ph.D., University of Texas, 1965.

**DeVaul, Richard A.**, *Dean, Vice President for Health Affairs, Executive Director of the Health Science Center, and Professor of Psychiatry and Behavioral Science and of Family and Community Medicine.* (1988, 1991) B.S., Iowa State University, 1961; M.D., University of Rochester School of Medicine, 1966.

**Devillier, James R.**, *Assistant Professor of Pathology and Laboratory Medicine.* (1988) B.S., University of Kansas College of Pharmacy, 1972; M.D., University of Kansas College of Medicine, 1977.

**Diaz, Jaime A.**, *Director and Professor of Pathology and Laboratory Medicine.* (1978, 1992) M.D., Javeriana University Medical School (Colombia), 1964.

**Dieckert, J. Paul**, *Associate Professor of Surgery.* (1987) B.S., Texas A&M University, 1973; M.D., University of Texas Southwestern Medical School, 1977.

**Dirks, Kenneth R.**, *Professor of Pathology and Laboratory Medicine.* (1980, 1985) M.D., Washington University School of Medicine, 1947.

**Dittmar, Susan J.**, *Assistant Professor of Surgery.* (1991) B.A., University of Texas, 1971; M.A., Michigan State University, 1977; M.D., University of Texas Medical School at San Antonio, 1981.

**Ditzler, John W., Jr.**, *Clinical Assistant Professor of Surgery.* (1983) B.S., Kalamazoo College, 1966; M.D., University of Michigan Medical School, 1970.

**Dobin, Sheila M.**, *Associate Professor of Pediatrics and of Pathology and Laboratory Medicine and Assistant Professor of Medical Biochemistry and Genetics.* (1984, 1991) B.A., University of Texas, 1975; Ph.D., University of Texas Graduate School of Biomedical Sciences at Houston, 1981.

**Donnelly, Allen M.**, *Assistant Professor of Radiology.* (1988) B.A., Rice University, 1960; M.D., Baylor College of Medicine, 1960.

**Donner, Ludvik R.**, *Assistant Professor of Pathology and Laboratory Medicine.* (1986) M.D., Charles University, Prague (Czechoslovakia), 1965; Ph.D., Czech Academy of Sciences, Prague (Czechoslovakia), 1970.

**Doss, David R.**, *Clinical Assistant Professor of Obstetrics and Gynecology.* (1982) B.S., University of Houston, 1974; M.D., University of Texas Medical Branch at Galveston, 1978.

**Doty, Richard D.**, *Assistant Professor of Internal Medicine.* (1986) B.S., U.S. Military Academy-West Point, 1966; M.D., University of California-Los Angeles School of Medicine, 1974.

**Douty, Deborah R.**, *Assistant Professor of Pediatrics and of Family and Community Medicine.* (1981, 1991) B.S., Stephen F. Austin State University, 1973; M.D., University of Texas Medical Branch at Galveston, 1978.

**Douty, Truman B., Jr.**, *Assistant Professor of Pediatrics and of Family and Community Medicine.* (1979, 1991) B.S., Rice University, 1971; M.D., University of Texas School of Medicine at Houston, 1974.

**Drake, Glen B. Jr.**, *Assistant Professor of Internal Medicine.* (1980) B.S., Southern Methodist University, 1970; M.D., University of Texas Southwestern Medical School, 1975.

**Droemer, Daniel R., Jr.**, *Assistant Professor of Internal Medicine.* (1981) B.S., Texas A&M University, 1971; M.D., University of Texas Medical Branch at Galveston, 1976.

**Druepple, LeRoy G.**, *Professor of Surgery.* (1979, 1983) A.A., John Muir College, 1952; B.A., Stanford University, 1954; M.D., Stanford University School of Medicine, 1957; M.A., Baylor University, 1975.

**Dula, Jon A.**, *Clinical Associate Professor of Family and Community Medicine.* (1981) B.A., Southern Methodist University, 1966; M.D., Ohio State University Medical School, 1970.

**Dunlop, Robert J.**, *Assistant Professor of Surgery.* (1981) B.A., Mankato State University, 1970; M.A., University of Tennessee, 1975; Ph.D., 1978.

**Dusold, Richard J.**, *Instructor in Internal Medicine.* (1989) B.S., Baylor University, 1983; M.D., University of Texas Medical Branch at Galveston, 1987.



**Dvoracek, John E.**, *Assistant Professor of Internal Medicine*. (1979, 1981) B.S., University of Minnesota, 1969; M.D., University of Minnesota Medical School, 1974.

**Dyck, Walter P.**, *Division Director and Professor of Internal Medicine*. (1978, 1981) B.S., Bethel College, 1957; M.D., University of Kansas College of Health Sciences, 1961.

**Easley, David J.**, *Instructor in Pediatrics*. (1991) B.S., Baylor University, 1985; M.D., University of Texas Medical School at San Antonio, 1989.

**Eberts, John P.**, *Associate Professor of Radiology*. (1979, 1981) B.A., Rice University, 1957; M.D., University of Texas Southwestern Medical School, 1961.

**\*Eckert, Edward R.**, *Clinical Assistant Professor of Pathology and Laboratory Medicine*. (1990) B.S., Texas A&M University, 1978; B.S., Texas A&M University, 1982; M.D., Texas A&M University College of Medicine, 1984.

**Elder, Robert T.**, *Associate Professor of Medical Biochemistry and Genetics*. (1990) B.A., Saint Olaf College, 1970; Ph.D., University of Illinois, 1978.

**Elkins, Gary R.**, *Associate Professor of Psychiatry and Behavioral Science*. (1982, 1988) B.A., Henderson State University, 1975; M.A., East Texas State University, 1976; Ph.D., Texas A&M University, 1980.

**Elliott, Kent F.**, *Assistant Professor of Surgery*. (1991) B.S., Oklahoma State University, 1977; M.D., Oklahoma University College of Medicine, 1987.

**Ellis, Charles T.**, *Associate Professor of Surgery*. (1990) B.S., University of Tennessee, 1964; M.D., University of Tennessee School of Medicine, 1970.

**Ellis, Donald L.**, *Assistant Professor of Surgery*. (1988) B.S., Oregon State College, 1952; M.D., Oregon Health Sciences University School of Medicine, 1956.

**Ellis, Robert G.**, *Clinical Assistant Professor of Family and Community Medicine*. (1986) A.B., Emory University, 1949; M.D., Medical College of Georgia, 1953.

**Elmendorf, Ernest A.**, *Clinical Associate Professor of Radiology*. (1981) B.S., Texas A&M University, 1953; M.D., University of Texas Southwestern Medical School, 1955.

**English, Mark W.**, *Assistant Professor of Family and Community Medicine*. (1991) B.S., Stephen F. Austin State University, 1984; M.D., University of Texas Medical School, 1988.

**Engvall, William R.**, *Professor of Surgery*. (1979, 1984) B.S., Southwestern University, 1955; M.D., University of Texas Medical Branch at Galveston, 1959.

**Eska, Terry F.**, *Clinical Assistant Professor of Internal Medicine*. (1980) B.A., Rice University, 1969; M.D., Johns Hopkins University School of Medicine, 1973.

**Euhus, David M.**, *Clinical Assistant Professor of Surgery*. (1991) B.S., Colorado State University, 1980; M.D., Saint Louis University School of Medicine, 1984.

**Fasolino, Edward**, *Assistant Professor of Family and Community Medicine*. (1991) B.S., Cornell University, 1981; M.D., University of Medicine and Dentistry of New Jersey, 1985.

**Fedorchik, Joseph J.**, *Clinical Assistant Professor of Surgery*. (1990) B.A., Michigan State University, 1971; M.D., University of Michigan, 1977.

**Ficht, Allison C. R.**, *Associate Professor of Medical Biochemistry and Genetics*. (1984, 1990) B.S., Auburn University, 1975; Ph.D., Vanderbilt University, 1980.

**Fife, William P.**, *Professor of Hyperbaric Medicine*. (1992) B.S., University of Oregon, 1956; Ph.D., Ohio State University Medical School, 1962.

**Flocco, Guy P.**, *Assistant Professor of Internal Medicine*. (1985) B.S., State University of New York at Stony Brook, 1972; M.D., Albert Einstein College of Medicine of Yeshiva University, 1978.

- Fisher, John D.**, *Associate Professor of Surgery*. (1982, 1987) B.A., Rice University, 1970; Ph.D., 1974; M.D., University of Texas Medical School at San Antonio, 1977.
- Floyd, William F.**, *Assistant Professor of Family and Community Medicine*. (1987) B.S., Baylor University, 1952; M.D., University of Texas Medical Branch at Galveston, 1956.
- Follender, Alan B.**, *Professor of Internal Medicine*. (1977, 1981) B.S., University of Miami, 1963; M.D., University of Miami School of Medicine, 1967.
- Forest, Patricia L.**, *Assistant Professor of Internal Medicine*. (1990) B.S., University of North Carolina, 1980; M.D., East Carolina School of Medicine, 1984.
- \*Foster, Dayne M.**, *Assistant Professor of Pediatrics*. (1986) B.S., University of Texas at Austin, 1975; B.S., Texas A&M University, 1981; M.D., Texas A&M University College of Medicine, 1983.
- Foster, Delbert R.**, *Assistant Professor of Internal Medicine*. (1988) B.S., Tulane University, 1967; M.D., Baylor College of Medicine, 1971.
- Foulks, Charles J.**, *Associate Professor of Internal Medicine*. (1990) B.S., Eastern Tennessee State University, 1972; M.D., University of Tennessee, 1975.
- Fournier, Constance J.**, *Assistant Professor of Psychiatry and Behavioral Science and of Pediatrics*. (1987, 1991) B.S., Wayne State University, 1975; M.Ed., 1980; Ph.D., University of Texas at Austin, 1987.
- Frankel, Lawrence S.**, *Professor of Pediatrics*. (1986, 1990) M.D., State University of New York at Buffalo School of Medicine and Biomedical Sciences, 1970.
- \*Frazee, Richard C.**, *Assistant Professor of Surgery*. (1988) B.S., Texas A&M University, 1979; M.D., Texas A&M University College of Medicine, 1983.
- Frelier, Eileen M.**, *Assistant Professor of Internal Medicine*. (1991) B.S., University of California, 1971; M.S., Purdue University, 1973; M.D., University of Calgary, 1985.
- Frye, Gerald D.**, *Associate Professor of Medical Pharmacology and Toxicology*. (1983, 1987) B.S., Virginia Polytechnic Institute and State University, 1972; Ph.D., University of North Carolina, 1977.
- Fryer, John H.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1990) A.B., Harvard University, 1967; A.M., Harvard University Graduate School, 1968; Ph.D., Harvard University Graduate School, 1974.
- Gamino, Louis A.**, *Associate Professor of Psychiatry and Behavioral Science*. (1981, 1987) B.A., Creighton University, 1974; M.A., University of Kansas, 1978; Ph.D., 1980.
- Gammenthaler, Sammy A.**, *Assistant Professor of Internal Medicine*. (1990) B.S., University of Central Florida, 1972; M.D., Loma Linda School of Medicine, 1975.
- \*Gammon, Jane E.**, *Assistant Professor of Internal Medicine*. (1988, 1990) B.S., Texas A&M University, 1979; B.S., 1984; M.D., Texas A&M University College of Medicine, 1986.
- Gantt, D. Scott**, *Assistant Professor of Internal Medicine*. (1985) B.A., Ohio Wesleyan University, 1970; D.O., College of Osteopathic Medicine and Surgery at Des Moines, Iowa, 1976.
- Gastel, Barbara J.**, *Associate Professor of Humanities in Medicine and of Journalism*. (1989) B.A., Yale University, 1974; M.D., Johns Hopkins University School of Medicine, 1978; M.P.H., Johns Hopkins University, 1978.
- Geerling, Sonja**, *Senior Lecturer in Pathology and Laboratory Medicine*. (1977, 1985) B.Sc., University of Witwatersrand (South Africa), 1956; M.B.B.Ch., 1964.
- Gelderd, John B.**, *Associate Professor of Human Anatomy and Medical Neurobiology*. (1977, 1981) B.S., University of Florida, 1967; Ph.D., University of Florida College of Medicine, 1972.
- Gennaro, Victor**, *Assistant Professor of Surgery*. (1990) B.S., West Chester State College, 1978; D.O., Philadelphia College of Osteopathic Medicine, 1984.

**Gerdes, Paul D.**, *Assistant Professor of Family and Community Medicine*. (1986) B.A., Austin College, 1979; M.D., University of Texas Medical Branch at Galveston, 1983.

**Geyer, Charles E., Jr.**, *Assistant Professor of Internal Medicine*. (1988, 1991) B.A., Texas Tech University, 1976; M.D., Texas Tech University Health Sciences Center School of Medicine, 1980.

**Gibson, Jeff R., Jr.**, *Assistant Professor of Surgery*. (1982) B.A., Rice University, 1968; M.D., University of Texas Southwestern Medical School, 1972.

**Giddings, Thomas H.**, *Clinical Associate Professor of Internal Medicine*. (1978, 1981) M.D., University of Texas Medical Branch at Galveston, 1948.

**Giles, James B.**, *Clinical Assistant Professor of Surgery*. (1986) B.A., University of Texas, 1974; M.D., Baylor College of Medicine, 1978.

**Gillette, Francis J., Jr.**, *Assistant Professor of Surgery*. (1987) B.S., University of Wisconsin, 1957; D.D.S., Marquette Dental School, 1961.

**Gilliland, Paul F.**, *Professor of Internal Medicine*. (1979, 1984) B.A., University of Texas at Austin, 1952; M.D., University of Texas Medical Branch at Galveston, 1956.

**Ginn, Thomas A.**, *Clinical Assistant Professor of Internal Medicine*. (1983) B.A., University of Texas, 1975; M.D., University of Texas Medical Branch at Galveston, 1979.

**Glenn, J. Barry, Jr.**, *Clinical Assistant Professor of Surgery*. (1979, 1981) B.S., University of Mississippi, 1963; M.D., University of Mississippi School of Medicine, 1968.

**Gloff, Donald A.**, *Clinical Associate Professor of Family and Community Medicine*. (1981) B.A., Austin College, 1957; M.D., University of Texas Medical Branch at Galveston, 1961.

**Goebel, Gregg R.**, *Assistant Professor of Family and Community Medicine*. (1987) B.S., Texas A&M University, 1979; M.D., Baylor College of Medicine, 1983.

**Goen, Patricia A.**, *Clinical Assistant Professor of Pediatrics*. (1990) B.S., University of Kentucky, 1985; M.D., University of Texas Medical School at San Antonio, 1986.

**Goforth, W. Preston**, *Assistant Professor of Surgery*. (1987) B.S., Abilene Christian University, 1972; D.P.M., Illinois College of Podiatric Medicine, 1978.

**Gold, Bess G.**, *Professor and Head of Pediatrics*. (1984, 1991) B.A., Cornell College, 1969; M.D., George Washington University School of Medicine, 1976.

**Gold, William R., II**, *Associate Professor of Obstetrics and Gynecology*. (1984) B.A., Cornell College, 1969; M.D., University of Iowa College of Medicine, 1973.

**Gonzalez, David M.**, *Assistant Professor of Surgery*. (1990) B.A., University of Texas, 1976; M.D., University of Texas Medical School at San Antonio, 1980.

**Goodman, Anthony H.**, *Professor of Medical Physiology*. (1983) M.B.B.S., University of Sydney (Australia), 1961; Ph.D., 1968.

**Gorden, Todd B.**, *Clinical Assistant Professor of Surgery*. (1987) B.S., Texas A&M University, 1974; M.D., University of Texas Southwestern Medical School, 1978.

**Gordon, B. Kevin**, *Medical Director and Assistant Professor of Family and Community Medicine*. (1982, 1987) B.S., Angelo State University, 1975; M.D., University of Texas Medical School at San Antonio, 1979.

**Gordon, Julius A.**, *Professor and Head of Pathology and Laboratory Medicine*. (1991) B.S., Washington University, 1951; M.D., Washington University, 1955.

**Gossett, Carl W.**, *Assistant Professor of Internal Medicine*. (1989) B.S., Texas Christian University, 1978; M.D., Texas Tech University School of Medicine, 1982.

**Gowan, Eugene, III**, *Assistant Professor of Internal Medicine*. (1981) B.S., University of Illinois, 1964; M.S., 1966; Ph.D., 1970; M.D., University of Texas Medical School at San Antonio, 1976.

- Goza, L. Joyce**, *Instructor in Psychiatry and Behavioral Science*. (1981) B.S.N., University of Mary-Hardin Baylor, 1973; M.S., Texas Woman's University, 1976.
- Granger, Harris J.**, *Professor and Head of Medical Physiology and Director of the Microcirculation Research Institute*. (1976, 1982) B.S., University of Southwestern Louisiana, 1966; Ph.D., University of Mississippi School of Medicine, 1970.
- Green, J. Benjamin, III**, *Associate Professor of Internal Medicine*. (1977, 1981) B.S., Rice University, 1961; M.D., University of Texas Medical Branch at Galveston, 1965.
- Greene, John F. Jr.**, *Associate Professor of Pathology and Laboratory Medicine*. (1977, 1981) B.A., Southern College, 1965; M.D., Loma Linda University School of Medicine, 1969.
- \*Greene, Pamela S.**, *Assistant Professor of Obstetrics and Gynecology*. (1986) B.S., Texas A&M University, 1977; M.D., Texas A&M University College of Medicine, 1982.
- Greene, Thomas J.**, *Assistant Professor of Internal Medicine*. (1988) B.A., Brown University, 1972; M.D., University of Texas Medical School at San Antonio, 1981.
- Gregory, Wayne A.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1992) B.A., University of Texas, 1973; Ph.D., 1981.
- Griffith, William H., III**, *Associate Professor of Medical Pharmacology and Toxicology*. (1983, 1989) B.S., Lamar University, 1973; M.S., 1975; Ph.D., University of Texas Medical Branch at Galveston, 1980.
- Grothaus, Peter C.**, *Assistant Professor of Surgery*. (1987) M.B.Ch.B., Cape Town University (South Africa), 1974.
- Gyeszly, Steven W.**, *Associate Professor of Internal Medicine and of Mechanical Engineering*. (1987, 1991) M.S., Technical University of Budapest (Hungary), 1967; M.S. Michigan State University, 1971; Ph.D., Michigan State University, 1974.
- Hackethorn, David L.**, *Assistant Professor of Internal Medicine*. (1979, 1981) B.A., Westminster College, 1971; M.D., University of Texas Medical Branch at Galveston, 1975.
- Hagen, Barbara A.T.**, *Assistant Professor of Pediatrics*. (1987) B.S., Houston Baptist University, 1980; M.D., University of Texas Medical School at Houston, 1984.
- Hagen, Michael P.**, *Assistant Professor of Family and Community Medicine*. (1984) B.S., Houston Baptist University, 1977; M.D., University of Texas Medical School at Houston, 1981.
- Hahn, Henry B., Jr.**, *Professor of Pediatrics*. (1977, 1981) B.S., Roanoke College, 1953; M.D., Medical College of Virginia, 1957; M.S., University of Minnesota, 1965.
- Haji, Asha K.**, *Clinical Assistant Professor of Family and Community Medicine*. (1990) Jai Hind College (India), 1961; M.B.B.S., G.S. Medical College, Bombay University (India), 1965.
- Haji, Karim I.**, *Instructor in Surgery*. (1990) M.D. Bombay University, 1967; M.B.B.S., G.S. Medical College, Bombay University (India), 1967.
- Hajra, Bhrihu R.**, *Associate Professor of Internal Medicine*. (1979, 1981) B.S., University of Calcutta (India) 1955; M.B.B.S., 1959.
- Hall, Beatriz M.**, *Assistant Professor of Internal Medicine*. (1990) B.A., Texas A&M University; M.D., University of Texas Medical School, 1987.
- Hall, John J.**, *Clinical Professor of Family and Community Medicine*. (1979, 1981) B.S., University of Minnesota, 1953; M.D., University of Minnesota Medical School, 1955.
- Hamilton, Charles R.**, *Professor of Human Anatomy and Medical Neurobiology*. (1991) B.S., University of the South, 1957; Ph.D., California Institute of Technology, 1964.
- Hamilton, William P.**, *Assistant Professor of Surgery*. (1986, 1988) B.S., University of Texas, 1977; M.D., University of Texas Medical Branch at Galveston, 1981.

- Hansen, Henry A., II**, *Clinical Professor of Surgery*. (1991) B.S., Texas A&M University, 1971; M.D., Texas Tech University Health Science Center School of Medicine, 1981.
- Harbolovic, Richard**, *Assistant Professor of Family and Community Medicine*. (1991) M.B.B.S., University of Queensland (Australia), 1979; B.S.E.E., Leigh University, 1972.
- Hardaway, Thomas G.**, *Assistant Professor of Psychiatry and Behavioral Science and of Pediatrics*. (1989, 1990) B.Mus., University of Texas, 1974; M.D., University of Texas Medical School at San Antonio, 1979.
- Hardy, David R.**, *Associate Professor of Pediatrics and Assistant Professor of Surgery*. (1982, 1991) B.S., Texas A&M University, 1975; M.D., University of Texas Medical Branch at Galveston, 1979.
- Harris, Jeffrey L.**, *Assistant Professor of Obstetrics and Gynecology*. (1990) M.D., University of Missouri, 1981.
- Harris, Nena A.**, *Clinical Associate Professor of Pediatrics*. (1978, 1981) B.S., Louisiana College, 1944; M.D., Louisiana State University School of Medicine, 1948.
- Harrison, Richard H., III**, *Clinical Professor of Surgery*. (1981) B.S., Texas A&M University, 1948; M.D., Baylor College of Medicine, 1952.
- Havalda, James T.**, *Assistant Professor of Surgery*. (1986) M.D., Charles University, Prague (Czechoslovakia), 1964.
- Havemann, David F.**, *Associate Professor of Internal Medicine*. (1979, 1987) B.S., University of Texas, 1969; M.D., University of Texas Medical School at San Antonio, 1973.
- Haydon, Robert L.**, *Clinical Assistant Professor of Family and Community Medicine*. (1981) B.A., University of Texas, 1969; M.D., University of Texas Medical Branch at Galveston, 1973.
- Hayward, Ronald H.**, *Professor of Surgery*. (1977) B.S., Victoria University (New Zealand), 1946; M.B., Ch.B., University of Otago Medical School (New Zealand), 1951; Ph.D., University of Minnesota, 1962.
- Haywood, D. Ray**, *Associate Professor of Surgery*. (1979, 1991) B.A., Baylor University, 1954; M.D., University of Texas Southwestern Medical School, 1958.
- Hemphill, Gregory L.**, *Clinical Assistant Professor of Surgery*. (1983) B.S. and B.A., University of Texas at Austin, 1971; M.D., Washington University Medical Center at Saint Louis, 1975.
- Hendricks, John C.**, *Associate Professor of Surgery*. (1982) B.S., University of Iowa, 1968; M.D., University of Iowa College of Medicine, 1972.
- Henry, Robert A., Jr.**, *Assistant Professor of Family and Community Medicine*. (1986) B.A., Eastern Michigan University, 1971; D.O., Michigan State University College of Osteopathic Medicine, 1977.
- Hermann, Lonnie G.**, *Clinical Assistant Professor of Family and Community Medicine*. (1987) B.S., Texas A&M University, 1975; M.D., University of Texas Medical Branch at Galveston, 1979.
- Hermans, Michael R.**, *Assistant Professor of Surgery*. (1986) A.B., Bowdoin College, 1974; M.D., University of Vermont College of Medicine, 1978.
- \*Herron, Richard E.**, *Clinical Assistant Professor of Family and Community Medicine*. (1986) B.S., Baylor University, 1975; M.D., Texas A&M University College of Medicine, 1983.
- Hester, R. Kelly**, *Associate Professor of Medical Pharmacology and Toxicology*. (1979, 1985) B.A., Austin College, 1969; Ph.D., University of Texas Health Science Center at San Antonio, 1975.
- Hicks, Paul B.**, *Assistant Professor of Psychiatry and Behavioral Science, of Human Anatomy and Medical Neurobiology and of Medical Pharmacology and Toxicology*. (1987, 1991) B.S., Oral Roberts University, 1974; M.S., University of Missouri, 1976; M.D., Baylor College of Medicine, 1983; Ph.D., 1983.
- Hill, Anabeth**, *Instructor in Psychiatry and Behavioral Science*. (1990) B.S., Troy State University, 1972; M.S.W., University of Texas, 1986.

**Hill, Paul S.,** *Associate Professor of Psychiatry and Behavioral Science.* (1979, 1981) B.A., University of Texas, 1955; M.D., University of Texas Medical Branch at Galveston, 1959; M.P.H., Harvard University, 1968.

**Hillis, Argye I. B.,** *Associate Professor of Medical Microbiology and Immunology and Clinical Associate Professor of Surgery.* (1982, 1990) B.S., Towson State University, 1968; Ph.D., Johns Hopkins University School of Hygiene and Public Health, 1974.

**Hines, Jeffrey F.,** *Assistant Professor Of Obstetrics and Gynecology.* (1990) B.S., Brown University, 1983; M.D., Brown University, 1986.

**\*Hise, Joseph H.,** *Assistant Professor of Radiology.* (1989) B.S., Texas A&M University, 1980; M.D., Texas A&M University College of Medicine, 1984.

**Hobbs, Gregory D.,** *Assistant Professor of Internal Medicine.* (1988) B.S., West Texas State University, 1980; M.D., University of Texas Medical School at San Antonio, 1985.

**Hogan, David,** *Assistant Professor of Internal Medicine.* (1990) B.S., Pittsburg State University, 1979; D.O., Kirksville College of Osteopathy, 1984.

**Holleman, Vernon D.,** *Division Director and Associate Professor of Internal Medicine.* (1982) B.A., Howard Payne College, 1953; M.D., Baylor College of Medicine, 1958.

**Holmes, Gary P.,** *Assistant Professor of Internal Medicine.* (1990) M.D., University of Texas Medical School at San Antonio, 1980.

**Hopens, Theodore,** *Associate Professor of Radiology.* (1983) B.S., City College of New York, 1960; M.S., Ohio State University, 1962; M.D., State University of New York Buffalo School of Medicine, 1968.

**Howard, Robert A.,** *Clinical Assistant Professor of Family and Community Medicine.* (1983) B.S., Louisiana State University, 1975; M.D., Louisiana State University School of Medicine, 1979.

**Howard, Paxton H., Jr.,** *Professor of Internal Medicine.* (1977, 1981) B.A., University of Texas, 1958; M.D., Baylor College of Medicine, 1962.

**Huber, Sondra S.,** *Instructor in Psychiatry and Behavioral Science.* (1981) A.S., Angelo State University, 1976; B.S., University of Mary-Hardin Baylor, 1980; M.S., American Technological University, 1981; M.S., Southwest Texas State University, 1982.

**Huber, Thomas W.,** *Associate Professor of Medical Microbiology and Immunology.* (1981) B.A., University of Texas, 1964; Ph.D., University of Texas, 1968.

**Huble, Grover C., Jr.,** *Clinical Assistant Professor of Family and Community Medicine.* (1979, 1981) B.A., North Texas State University, 1972; M.D., University of Texas Medical School, 1975.

**Huddleston, Ronald W.,** *Clinical Associate Professor of Family and Community Medicine.* (1979, 1981) B.S., Abilene Christian University, 1958; M.D., University of Texas Southwestern Medical School, 1962.

**Hurley, Douglas L.,** *Associate Professor of Internal Medicine and Coordinator of Continuing Education.* (1978, 1981) A.B., Yale University, 1966; M.D., Johns Hopkins University School of Medicine, 1970.

**\*Hutchinson, Lewis R.,** *Assistant Professor of Surgery.* (1990) B.S., Texas A&M University, 1978; M.D., Texas A&M University College of Medicine, 1983.

**Hutkoff, Lionel,** *Assistant Professor of Surgery.* (1990) B.A., University of Buffalo, 1960; D.P.M., Illinois College of Podiatric Medicine, 1964.

**Ihler, Garret M.,** *Professor and Head of Medical Biochemistry and Genetics.* (1977) B.S., California Institute of Technology, 1961; Ph.D., Harvard University, 1967; M.D., University of Pittsburgh School of Medicine, 1976.

**Ippen-Ihler, Karin A.,** *Professor of Medical Microbiology and Immunology.* (1977, 1984) B.A., Wellesley College, 1963; Ph.D., University of California at Berkeley, 1967.

**Jachimczyk, Joseph A.**, *Clinical Professor of Pathology and Laboratory Medicine*. (1984) M.D., University of Tennessee College of Medicine, 1948; J.D., Boston College Law School, 1958; B.T., University of Saint Thomas, 1976.

**Jackson, Jeffrey A.**, *Associate Professor of Internal Medicine*. (1985, 1990) B.G.S., University of Michigan, 1977; M.D., University of Michigan Medical School, 1979.

**Jaindl, Michael A.**, *Clinical Assistant Professor of Surgery*. (1991) M.D., University of South Carolina, 1984.

**Jay, Dennis W.**, *Assistant Professor of Pathology and Laboratory Medicine*. (1992) B.S., Southwest Missouri State University, 1978; M.A., University of Missouri-Columbia, 1981; Ph.D., University of Health Sciences/Chicago Medical School, 1986.

**Jensen, Randall D.**, *Assistant Professor of Family and Community Medicine*. (1985) B.S., University of Nebraska, 1975; M.D., University of Nebraska College of Medicine, 1978.

**Jermain, Donna M.**, *Assistant Professor of Internal Medicine and of Psychiatry and Behavioral Science*. (1990) B.S., University of Texas, 1986; Pharm.D., University of Texas Medical School at San Antonio, 1989.

**Jesse, Richard H., IV**, *Assistant Professor of Internal Medicine*. (1981) B.A., Austin College, 1972; M.D., University of Texas Medical Branch at Galveston, 1976.

**Jew, Andrew**, *Assistant Professor of Surgery*. (1985) A.S., Amarillo College, 1974; B.S., Baylor University, 1976; M.D., University of Texas Medical School at San Antonio, 1980.

**Jew, Katherine M.**, *Assistant Professor of Internal Medicine*. (1983) B.S., Texas A&M University, 1977; M.D., University of Texas Medical School at San Antonio, 1980.

**Johnson, Charles F. III**, *Associate Professor of Surgery*. (1985) A.A., Victoria College, 1960; B.A., University of Texas, 1962; M.D., University of Texas Medical Branch at Galveston, 1966.

**Johnson, Edwin H.**, *Assistant Professor of Pathology and Laboratory Medicine*. (1990) B.A., Rice University, 1973; M.D., University of Alabama, 1977.

**Johnson, Noreen Z.**, *Clinical Assistant Professor of Obstetrics and Gynecology*. (1982) B.S., Howard University, 1973; M.D., Howard University College of Medicine, 1977.

**Jones, A. Lloyd**, *Clinical Associate Professor of Internal Medicine*. (1981) B.S., Abilene Christian College, 1958; M.S., 1961; M.D., University of Tennessee College of Medicine, 1964.

**Jones, Bob C.**, *Clinical Associate Professor of Family and Community Medicine*. (1979, 1981) B.S., Texas A&M University, 1959; M.D., University of Texas Medical Branch at Galveston, 1963.

**Jones, Dennis R.**, *Professor of Psychiatry and Behavioral Science*. (1992) B.A., Wheaton College, 1967; M.S.W., Indiana University, 1969; M.B.A., Butler University, 1977.

**Jones, Michael E.**, *Clinical Assistant Professor of Family and Community Medicine*. (1991) B.S., Texas A&M University, 1980; M.D., University of Texas Medical School at San Antonio, 1985.

**Jones, Terry M.**, *Clinical Associate Professor of Internal Medicine*. (1979, 1981) B.A., Austin College, 1971; M.D., Baylor College of Medicine, 1974.

**Joseph, John A., II**, *Assistant Professor of Family and Community Medicine*. (1986) B.A., University of Texas, 1979; M.D., University of Texas Medical School at Houston, 1983.

**Joseph, Ralph E.**, *Assistant Professor of Obstetrics and Gynecology*. (1991) B.S., University of Texas Medical School at San Antonio, 1982; M.D., Texas College of Osteopathic Medicine, 1987.

**Jundt, Jeffrey W.**, *Assistant Professor of Internal Medicine*. (1985) B.S., Illinois Benedictine College, 1976; M.D., University of Illinois, Abraham Lincoln School of Medicine, 1980.

**Kahil, Michel E.**, *Clinical Associate Professor of Internal Medicine*. (1978, 1981) B.A., American University of Beirut (Lebanon), 1954; M.D., American University of Beirut School of Medicine (Lebanon), 1958.

**Kallina, Charles R., III**, *Assistant Professor of Surgery*. (1979, 1981) B.S., University of Texas at Austin, 1970; M.D., University of Texas Southwestern Medical School, 1974.

**Keegan, Gerald T.**, *Professor of Surgery*. (1979, 1984) B.S., St. Peter's College, 1963; M.D., Cornell University Medical College, 1967.

**Kelleher, Michael H.**, *Assistant Professor of Internal Medicine*. (1986) B.A., Amherst College, 1972; M.D., University of Rochester School of Medicine, 1976.

**Kethley, Joe L., Jr.**, *Assistant Professor of Surgery*. (1985) B.A., University of Texas, 1969; D.D.S., Baylor College of Dentistry, 1974.

**Khan, Muhammad I.**, *Assistant Professor of Family and Community Medicine*. (1990) F.Sc, Dyal Singh College at Lahore (Pakistan), 1970; M.B.B.S., Nishtar Medical College at Multan (Pakistan), 1980.

**Kietzman, Laurel I.**, *Assistant Professor of Internal Medicine*. (1990) B.S., Wheaton College, 1982; M.D., Loyola, 1986.

**Kim, Boo H.**, *Associate Professor of Surgery*. (1988) Premedical College of Korea University, 1962; M.D., Medical College of Korea University, 1966.

**Kimme, Kathy B.**, *Assistant Professor of Internal Medicine*. (1988) B.S., Texas A&M University, 1981; M.D., Texas Tech Health Sciences Center School of Medicine, 1985.

**Kirby, James M.**, *Clinical Assistant Professor of Surgery*. (1990) M.D., University of Texas Medical School at Galveston, 1977.

**Kirkpatrick, Michael O.**, *Assistant Professor of Family and Community Medicine*. (1989) B.A., Hendrix College, 1975; M.D., University of Arkansas College of Medicine, 1980.

**Kitchings, O. Eugene, III**, *Associate Professor of Surgery*. (1979, 1981) A.A., Gordon Military College, 1960; B.A., Emory University, 1962; M.D., Medical College of Georgia, 1966.

**Klugo, Richard C.**, *Professor of Surgery*. (1983, 1986) B.A., University of Buffalo, 1957; M.D., Albany Medical College, 1962.

**Knieriem, Brian M.**, *Assistant Professor of Surgery*. (1990) B.S., University of Alabama, 1980; O.D., University of Alabama, 1984.

**Knight, Alfred B. Jr.**, *Professor and Head of Obstetrics and Gynecology*. (1986, 1992) B.S., Massachusetts Institute of Technology, 1968; M.D., Case Western Reserve University School of Medicine, 1972.

**Knight, James A.**, *Professor of Humanities in Medicine and of Psychiatry and Behavioral Science and Co-director of the Leadership in Medicine Program*. (1992) A.B., Wofford College, 1941; B.D., Duke University Divinity School, 1944; M.P.H., Tulane University School of Medicine, 1962; M.D., Vanderbilt University School of Medicine, 1952.

**Knight, Wade L.**, *Associate Professor of Surgery*. (1981, 1986) B.A., University of Oklahoma, 1966; M.D., Baylor College of Medicine, 1970.

**Knudsen, Kermit B.**, *Professor of Internal Medicine*. (1975, 1981) B.S., Lawrence College, 1952; M.D., University of Illinois College of Medicine, 1956.

**Kochevar, Deborah T.**, *Assistant Professor of Medical Physiology and of Veterinary Physiology and Pharmacology*. (1990) B.A., Rice University, 1978; B.S., Texas A&M University, 1980; D.V.M., Texas A&M University, 1981; Ph.D., University of Texas Health Science Center, 1987.

**Kochevar, G. John**, *Associate Professor of Pathology and Laboratory Medicine*. (1985, 1991) B.A., Rice University, 1978; M.D., University of Texas Southwestern Medical School, 1981.

**Koehler, Bruce D.**, *Assistant Professor of Internal Medicine*. (1986) B.A., University of Notre Dame, 1973; M.D., University of Maryland School of Medicine, 1979.

**Koehler, Geraldine K.**, *Assistant Professor of Surgery*. (1990) B.S., University of Maryland, 1976; D.D.S., University of Maryland School of Dentistry, 1979.



**Koops, Beverly L.,** *Professor of Pediatrics and of Surgery.* (1982, 1989) B.A., University of Denver, 1964; M.D., Stanford University School of Medicine, 1969.

**Korompai, Ferenc L.,** *Professor of Surgery.* (1977, 1984) M.D., Baylor College of Medicine, 1963.

**Koss, William,** *Associate Professor of Pathology and Laboratory Medicine.* (1991) B.A., Colegio Nacional Bartolome Mitre at Buenos Aires (Argentina), 1969; M.D., University of Buenos Aires (Argentina), 1975.

**Krauss, David R.,** *Professor of Pediatrics and of Surgery.* (1977, 1989) M.D., Washington University School of Medicine, 1969.

**Kropf, Peter T.,** *Assistant Professor of Obstetrics and Gynecology.* (1991) B.A., Texas A&M University, 1976; D.O., North Texas State University, 1981.

**Krych, Raymond E.,** *Assistant Professor of Psychiatry and Behavioral Science.* (1982, 1983) B.S., Loyola University, 1972; M.S., St. Louis University, 1976; Ph.D., 1980.

**Kuehl, Thomas J.,** *Associate Professor of Obstetrics and Gynecology, of Pathology and Laboratory Medicine and of Medical Biochemistry and Genetics.* (1988, 1991) B.S., Michigan State University, 1972; M.S., 1974; Ph.D., 1976.

**Kuhnhein, Robert F.,** *Associate Professor of Radiology.* (1979, 1981) B.A., Baylor University, 1967; M.D., University of Texas Medical Branch at Galveston, 1971.

**Kukolich, Mary K.,** *Clinical Professor of Medical Biochemistry and Genetics.* (1986) A.B., Cornell University, 1968; M.D., Cornell University Medical College, 1972.

**Kuo, Lih,** *Research Assistant Professor of Medical Physiology.* (1988, 1991) B.S., College of Science Tung Hai University, Taiwan, 1979; M.S., National Taiwan University, 1983; Ph.D., Medical College of Virginia, 1987.

**Kupcha, Robert A.,** *Assistant Professor of Surgery.* (1990) B.S., Mt. St. Mary's College, 1981; M.D., Georgetown University School of Medicine, 1985.

**Ladd, Daniel J.,** *Division Director, Medical Director and Professor of Pathology and Laboratory Medicine.* (1979, 1991) B.E.S., Johns Hopkins University, 1962; M.S.E., 1968; M.D., University of Maryland School of Medicine, 1969.

**Laine, Glen A.,** *Associate Professor of Medical Physiology and of Veterinary Physiology and Pharmacology.* (1976, 1991) B.S., University of Southwest Louisiana, 1974; M.S., 1976; Ph.D., Texas A&M University, 1979.

**Lambert, Gary N.,** *Assistant Professor of Family and Community Medicine.* (1987) B.A., University of Texas, 1975; M.D., University of Texas Medical Branch at Galveston, 1980.

**Landgraf, Kenneth,** *Clinical Assistant Professor of Internal Medicine.* (1981) B.S., Texas A&M University, 1973; M.D., University of Texas Southwestern Medical School, 1977.

**LaPan, Michael,** *Clinical Instructor in Surgery.* (1991) D.P.M., New York College of Podiatric Medicine, NY.

**Lawyer, Norman G.,** *Division Director and Professor of Pediatrics.* (1982, 1988) B.S., Baylor University, 1955; M.D., University of Tennessee College of Medicine, 1961.

**Leadbeater, John C.,** *Associate Professor of Internal Medicine.* (1979, 1981) A.B., University of Colorado, 1958; M.D., University of Colorado College of Medicine, 1961; M.P.H., School of Public Health, Harvard University, 1971.

**Leavelle, F. Lurry,** *Associate Professor of Obstetrics and Gynecology.* (1977, 1981) B.S., Southern State College, 1963; M.D., University of Arkansas Medical Center, 1967.

**LeBleu, Bonnie,** *Clinical Professor of Family and Community Medicine.* (1981) B.A., Rice University, 1950; M.D., University of Texas Medical Branch at Galveston, 1954.

- Lecocq, Kenneth R.**, *Associate Professor of Surgery*. (1983) B.S., University of Illinois, 1952; D.D.S., University of Illinois Dental School, 1954.
- Lee, Jeffrey Y.**, *Clinical Assistant Professor of Internal Medicine*. (1992) B.S., University of Arizona, 1970; M.D., University of Texas Medical School at Houston, 1976.
- Lee, Shang H.**, *Assistant Professor of Internal Medicine*. (1991) M.D., Seoul National University (Korea), 1968.
- Lemper, P. David**, *Assistant Professor of Internal Medicine*. (1983) B.A., University of Pennsylvania, 1961; M.D., University of Pennsylvania School of Medicine, 1965.
- Lenahan, Richard P.**, *Associate Professor of Internal Medicine*. (1981) B.A., Southern Methodist University, 1968; M.D., University of Texas Medical Branch at Galveston, 1972.
- Lenis, Armando**, *Professor of Surgery*. (1982, 1991) B.A., Collegio San Luis Gonzaga at Cali (Colombia), 1961; M.D., Universidad del Valle at Cali (Colombia), 1968.
- LeSage, Gene D.**, *Associate Professor of Internal Medicine and Assistant Professor of Medical Biochemistry and Genetics*. (1983, 1991) B.A., University of Missouri at Kansas City, 1977; M.D., 1977.
- Leslie, Robert H.**, *Adjunct Assistant Professor of Humanities in Medicine*. (1990) B.A., Florida State University, 1956; B.A., Austin Presbyterian Theological Seminary, 1959; Ph.D., McGill University, 1969.
- Light, Randall**, *Clinical Assistant Professor of Internal Medicine*. (1982) B.S.E.E., University of Texas, 1972; M.D., University of Texas Medical Branch at Galveston, 1977.
- Lim, Freddy G.**, *Clinical Assistant Professor of Internal Medicine*. (1984) M.D., University of the Philippines College of Medicine, 1964.
- Lindner, Luther E.**, *Senior Lecturer in Pathology and Laboratory Medicine*. (1982, 1989) B.S., University of Toledo, 1964; M.D., Case Western Reserve University School of Medicine, 1967; Ph.D., 1974.
- Lindsay, James I.**, *Clinical Professor of Family and Community Medicine*. (1979, 1981) B.S., University of Michigan, 1951; M.D., University of Texas Medical Branch at Galveston, 1954.
- Lindsay, Mark B.**, *Clinical Assistant Professor of Surgery*. (1978, 1981) B.A., Austin College, 1963; M.D., University of Texas Southwestern Medical School, 1967.
- Lindzey, David L.**, *Assistant Professor of Internal Medicine*. (1987) B.A., University of Texas, 1975; B.S., 1978; M.D., Texas Tech University Health Sciences Center School of Medicine, 1984.
- Linthicum, Darwin S.**, *Professor of Medical Physiology, of Veterinary Pathobiology and of Veterinary Anatomy and Public Health*. (1990) B.A., University of California, 1973; Ph.D., University of California, 1976.
- Lipscomb, Harry S.**, *Professor of Family and Community Medicine and of Internal Medicine*. (1976, 1981) B.S., Baylor University, 1948; M.D., Baylor College of Medicine, 1952.
- Lloyd, William C., III**, *Clinical Associate Professor of Surgery*. (1990) B.S., United States Military Academy, 1975; M.D., Uniformed Services University, 1980.
- Long, Robert J.**, *Associate Professor of Internal Medicine and Assistant Professor of Surgery*. (1982, 1991) B.A., Baylor University, 1973; M.D., University of Texas Medical Branch at Galveston, 1977.
- Lorette, John J.**, *Assistant Professor of Internal Medicine*. (1989) EMT, Quinsigamond Community College, 1976; B.A., College of the Holy Cross, 1977; D.O., University of Health Sciences at Kansas City, 1984.
- Lowrey, Oliver W.**, *Assistant Professor of Family and Community Medicine*. (1987) B.A., University of Texas, 1940; M.D., University of Texas Medical Branch at Galveston, 1942.
- Lowry, Wallace E., Jr.**, *Associate Professor of Surgery*. (1979, 1981) B.A., University of Texas at Austin, 1961; M.D., Baylor College of Medicine, 1965.

**Lueck, Anne G.**, *Assistant Professor of Surgery*. (1981, 1988) B.A., Texas Tech University, 1964; M.A., Baylor University, 1968; Ph.D., University of Texas, 1987.

**Lukeman, Robert W.**, *Assistant Professor of Internal Medicine*. (1990) B.S., Texas A&M University, 1976; M.D. University of Texas Medical Branch at Galveston, 1980.

**Lynch, Denis P.**, *Clinical Assistant Professor of Pathology and Laboratory Medicine*. (1983) D.D.S., University of California, 1976; Ph.D., University of Alabama, 1986.

**Lynch, Dennis J.**, *Professor and Head of Surgery*. (1977, 1990) B.S., Villanova University, 1961; M.D., Georgetown University School of Medicine, 1965.

**Lynch, Donald M.**, *Assistant Professor of Surgery*. (1990) B.S., Tarleton State University, 1979; D.P.M., Ohio College of Podiatric Medicine, 1983.

**Macias, Vincent R.**, *Clinical Assistant Professor of Medical Biochemistry and Genetics*. (1991) B.S., University of Guadalajara (Mexico), 1975; M.D., University Autonomous of Guadalajara (Mexico), 1975.

**Mackey, Don A.**, *Assistant Professor of Internal Medicine*. (1989) B.S., Oklahoma State University, 1969; M.D., University of Texas Medical School at San Antonio, 1973.

**Madler, Jerome J.**, *Associate Professor of Internal Medicine*. (1981) B.S., University of Illinois, 1967; M.S., University of Illinois Medical Center, 1974; Ph.D., 1976; M.D., 1976.

**Madsen, James E.**, *Assistant Professor of Family and Community Medicine*. (1984) B.S., University of Wisconsin, 1970; M.D., University of Nebraska Medical Center in Omaha, 1974.

**Malina, Joanne J.**, *Assistant Professor of Internal Medicine*. (1991) B.S., University of Texas, 1978; M.D., Southwestern University, 1985.

**Mann, Nirmal Singh**, *Professor of Internal Medicine*. (1983, 1986) B.S., Delhi University (India), 1956; M.D., Christian Medical College, Ludhiana, Panjab University (India), 1962; M.S., Northwestern University Medical Center, 1969; FRCP (C), Royal College of Physicians (Canada), 1971; D.Sc., San Juan Bautista School of Medicine (Puerto Rico), 1987.

**Mann, Surinder K.**, *Associate Professor of Internal Medicine*. (1986, 1991) M.D., Government Medical College, Panjabi University at Patiala (India), 1969.

**Marek, Bobby W.**, *Clinical Assistant Professor of Internal Medicine*. (1985) B.S., Texas A&M University, 1975; M.D., University of Texas Medical Branch at Galveston, 1979.

**\*Marquardt, Michael P.**, *Assistant Professor of Pediatrics*. (1991) B.S., Texas A&M University, 1985; B.S., 1983; M.D., Texas A&M University College of Medicine, 1985.

**Marr, William H.**, *Clinical Assistant Professor of Surgery*. (1985) B.S., Texas A&M University, 1976; M.D., University of Texas Medical School at San Antonio, 1980.

**Martin, Joe**, *Assistant Professor of Surgery*. (1989) B.S., Brigham Young University, 1978; D.P.M., California College of Podiatric Medicine, 1984.

**Martin, Michael P.**, *Assistant Professor of Internal Medicine*. (1985) B.A., University of Minnesota, 1970; M.D., University of Minnesota Medical School, 1980.

**Martinez, George**, *Assistant Professor of Internal Medicine*. (1989, 1990) B.S., University of Mary Hardin-Baylor, 1982; M.D., University of Texas Southwestern Medical School, 1987.

**Mason, James M.**, *Clinical Assistant Professor of Internal Medicine*. (1978, 1981) B.A., Baylor University, 1967; M.D., University of Texas Southwestern Medical School, 1971.

**Mathew, Ann T.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1992) B.S., Government Women's College, Trivandrum, India, 1959; M.D., Trivandrum Medical College, Kerala, India, 1965.

**Matthews, Kenneth E.**, *Clinical Assistant Professor of Pediatrics*. (1978, 1981) B.A., North Texas State University, 1965; M.D., University of Texas Medical Branch at Galveston, 1969.

- \*Matthews, T. Keller, III, Assistant Dean for Student Affairs-Temple, College of Medicine, and Assistant Professor of Surgery.** (1984, 1989) B.S., Texas A&M University, 1979; M.D., Texas A&M University College of Medicine, 1981.
- May, Jon L., Assistant Professor of Internal Medicine.** (1979, 1981) B.S., Southwestern State College School of Pharmacy, 1964; M.D., University of Texas Southwestern Medical School, 1972.
- May, Samuel W., Jr., Associate Professor of Surgery.** (1991) B.A., Westminster College, 1965; M.D., University of Iowa, 1969.
- Maynard, Timothy D., Assistant Professor of Family and Community Medicine.** (1987) B.S., Texas Tech University, 1976; M.D., University of Texas Southwestern Medical School, 1980.
- McCallum, Roderick E., Professor and Head of Medical Microbiology and Immunology.** (1992) B.A. University of Kansas, 1967; Ph.D., 1970.
- McClellan, David A., Assistant Professor of Family and Community Medicine.** (1985) B.S., University of Texas, 1971; M.D., University of Texas Medical School at Houston, 1975.
- McClendon, James E., Associate Professor of Internal Medicine.** (1980,1981) B.S., Southwestern University, 1951; M.D., Tulane University School of Medicine, 1955.
- McCollough, Randy F., Assistant Professor of Internal Medicine.** (1988, 1991) B.S., Southwest Texas State University, 1975; M.A., University of Texas Medical School at Galveston, 1981; M.D., University of Texas Medical School at Galveston, 1986.
- McCombs, William B., III, Associate Professor of Medical Microbiology and Immunology and of Pathology and Laboratory Medicine.** (1977, 1981) B.S., Texas Tech University, 1969; M.S., Texas Tech University Health Sciences Center Medical School, 1971; Ph.D., 1975.
- McCord, Gary C., Clinical Assistant Professor of Radiology.** (1987) B.A., Texas A&M University, 1979; M.D., University of Texas Medical Branch at Galveston, 1983.
- McDavid, Andrew J., Assistant Professor of Surgery.** (1987) B.A., University of Texas, 1980; M.D., University of Texas Medical Branch at Galveston, 1984.
- McDermott, John J., Professor of Humanities in Medicine.** (1977, 1981) B.A., St. Francis College, 1953; M.A., Fordham University, 1954; Ph.D., 1959; L.L.D., University of Hartford, 1970.
- McFarlane, M.E., Instructor in Psychiatry and Behavioral Science** (1992) B.A., Baylor University, 1986; M.A., Biola University, 1988; Psy.D., 1991.
- McGuinn, William D., Lecturer in Medical Pharmacology and Toxicology.** (1989) B.S., North Carolina State University, 1975; M.S., 1981; Ph.D., 1988.
- McIlhane, George R., Clinical Associate Professor of Family and Community Medicine.** (1978, 1981) B.A., Baylor University, 1966; M.D., Baylor College of Medicine, 1970.
- McMahan, Sandra A., Assistant Professor of Internal Medicine.** (1981) B.S., Newcomb College of Tulane University, 1968; M.D., University of Texas Medical Branch at Galveston, 1972.
- McMahon, Michael F., Clinical Assistant Professor of Surgery.** (1987) B.S., University of San Francisco, 1971; M.D., Creighton University School of Medicine, 1975.
- McManus, James P., Professor of Internal Medicine.** (1979, 1981) B.S., St. Mary's College (Scotland), 1950; M.D., Edinburgh University (Scotland), 1956.
- McMurray, David N., Professor of Medical Microbiology and Immunology and Associate Professor of Veterinary Public Health.** (1976, 1991) B.S., University of Wisconsin-Madison, 1965; M.S., 1971; Ph.D., 1972.
- McNew, J. T. Lamar, Clinical Professor of Family and Community Medicine.** (1979, 1981) B.S., Texas A&M University, 1953; M.D., University of Texas Southwestern Medical School, 1962.
- Mears, Craig T., Assistant Professor of Family and Community Medicine.** (1987) B.A., University of Texas, 1976; M.D., University of Texas Medical Branch at Galveston, 1982.

**Measel, John W.**, *Professor of Medical Microbiology and Immunology and of Pathology and Laboratory Medicine.* (1991) B.A., Henderson State College, 1963; M.A., East Texas State University, 1964; Ph.D., University of Oklahoma, 1970.

**Meek, William J.**, *Assistant Professor of Psychiatry and Behavioral Science.* (1987) B.A., University of Arkansas at Fayetteville, 1975; M.D., University of Arkansas College of Medicine, 1979.

**Mehta, Vijay A.**, *Assistant Professor of Surgery.* (1981) F.Y.B.Sc., Gujarat University (India), 1965; M.B.B.S., Saurashtra University (India), 1969.

**Meininger, Cynthia J.**, *Assistant Professor of Medical Physiology.* (1984, 1991) B.A., University of South Florida, 1980; Ph.D., Texas A&M University, 1987.

**Meininger, Gerald A.**, *Associate Professor of Medical Physiology and Coordinator of Graduate Studies and Research.* (1981, 1989) B.S., Central Michigan University, 1974; M.S., 1976; Ph.D., University of Missouri at Columbia, 1981.

**Meuse, Sheila A.**, *Assistant Professor of Surgery.* (1986) B.A., University of Connecticut, 1977; M.A., University of Texas, 1980; Ph.D., 1984.

**\*Meyer, Arlene K.**, *Clinical Assistant Professor of Pediatrics.* (1988, 1990) B.A., University of Texas, 1982; M.D., Texas A&M University College of Medicine, 1986.

**Meyer, James R.**, *Assistant Professor of Obstetrics and Gynecology.* (1986) B.S., Texas A&M University, 1971; M.D., Tulane University School of Medicine, 1974.

**Miller, Charles E. III**, *Assistant Professor of Family and Community Medicine.* (1991) B.A., University of Texas, 1978; M.A., 1980; M.D., University of Texas Medical School at Houston, 1984

**Miller, Michael J.**, *Assistant Professor of Surgery.* (1987) B.S., Texas A&M University, 1978; M.D., University of Texas Medical School at San Antonio, 1982.

**Moczygomba, Richard W.**, *Assistant Professor of Psychiatry and Behavioral Science.* (1989) Voc. Nurse, Austin Community College, 1976; B.S., University of Texas, 1979; M.D., University of Texas Medical School at San Antonio, 1984.

**Montgomery, G. Mark**, *Clinical Assistant Professor of Obstetrics and Gynecology.* (1982) B.S., Texas A&M University, 1974; M.D., University of Texas Southwestern Medical School, 1978.

**Montgomery, John L.**, *Professor and Head of Radiology and Professor of Pediatrics.* (1977, 1990) B.S., Baylor University, 1955; M.D., University of Texas Medical Branch at Galveston, 1958.

**Morehead, Charles D.**, *Professor of Pediatrics.* (1977, 1981) B.S., North Texas State University, 1958; M.D., University of Texas Southwestern Medical School, 1962.

**Morgan, Richard G.**, *Associate Professor of Internal Medicine and of Family and Community Medicine.* (1977, 1981) B.S., Indiana State University, 1969; M.D., Indiana University College of Medicine, 1972.

**Morton, Gary H.**, *Associate Professor of Surgery.* (1982) B.S., McMaster University (Canada), 1964; M.D., Toronto University School of Medicine (Canada), 1968.

**Moscato, Ronald M.**, *Assistant Professor of Internal Medicine.* (1990) B.S., Georgetown University, 1980; M.D., Georgetown University School of Medicine, 1984.

**Mukhopadhyay, Phalguni**, *Professor of Internal Medicine.* (1982, 1988) I.Sc., Christian College at Bankura (West Bengal), 1959; M.B.B.S., Medical College, Calcutta University (India), 1964; M.D., Maulana Azad Medical College (India), 1969.

**Mutyala, Indra D.**, *Assistant Professor of Internal Medicine.* (1982) B.S., P.R. Government (India); M.D., Rangaraya Medical College (India), 1970.

**Mutyala, Murthy**, *Assistant Professor of Family and Community Medicine.* (1983) P.R., Government College (India), 1962; M.D., Rangaraya Medical College (India), 1973; M.B.B.S., Andhra University (India), 1973.

**Myers, Dennis L.**, *Associate Dean—Temple, College of Medicine, and Associate Professor of Internal Medicine and of Surgery.* (1985, 1989) B.S., West Texas State University, 1972; M.D., University of Texas School of Medicine at Houston, 1976.

**Myers, Robert E.,** *Professor of Pediatrics.* (1977, 1981) B.S., University of Arkansas, 1952; M.D., University of Arkansas School of Medicine, 1955.

**Nair, Shyamala P.,** *Assistant Professor of Family and Community Medicine.* (1990) B.S., Women's College at Trivandrum (India), 1964; M.B.B.S., Medical College at Trivandrum (India), 1971; M.D., Nassau County Medical Center at New York, 1975.

**Narro, John, P.,** *Assistant Professor of Internal Medicine.* (1991) B.S., Texas Tech University, 1981; M.D., University of Texas Medical School at Houston, 1985.

**\*Naul, L. Gill, III,** *Associate Professor of Radiology.* (1985, 1991) B.S., Texas A&M University, 1979; M.D., Texas A&M University College of Medicine, 1981.

**Nickel, Allan E.,** *Assistant Professor of Internal Medicine and of Surgery.* (1983, 1989) B.S., Ohio State University, 1971; M.D., Ohio State University College of Medicine, 1975.

**Nickel, Susan P.,** *Assistant Professor of Pediatrics.* (1983) B.S., Ohio State University College of Pharmacy, 1972; M.D., Ohio State University College of Medicine, 1975.

**Niemann, Bobby B.,** *Assistant Professor of Internal Medicine.* (1989) B.S., Southwest Texas State University, 1971; M.D., University of Texas Medical Branch at Galveston, 1975.

**Nipper, Michael L.,** *Assistant Professor of Radiology.* (1988, 1989) B.A., Texas Tech University, 1981; M.D., University of Texas Southwestern Medical School, 1985.

**Nisbet, Robert B.,** *Associate Professor of Psychiatry and Behavioral Science and of Obstetrics and Gynecology.* (1982, 1984) B.A., University of Texas, 1959; M.D., University of Texas Southwestern Medical School, 1963.

**Nitishin, Arnold,** *Associate Professor of Radiology.* (1990) B.S., Trinity University, 1950; B.S., University of Texas, 1954; M.D., University of Texas Medical Branch at Galveston, 1961.

**Norris, Stephen A.,** *Assistant Professor of Surgery.* (1987) B.A., Baylor University, 1971; M.D., University of Texas Southwestern Medical School, 1975.

**Norwood, Michael W.,** *Assistant Professor of Family and Community Medicine.* (1992) B.S., Central State University, 1978; D.O., Oklahoma State University College of Osteopathic Medicine, 1982.

**Novosad, Ted S.,** *Clinical Assistant Professor of Family and Community Medicine.* (1979, 1981) B.A., Texas A&M University, 1963; M.D., University of Texas Medical Branch at Galveston, 1967.

**Nye, Diana,** *Assistant Professor of Internal Medicine.* (1988) B.A., University of Texas, 1981; M.D., University of Texas Medical Branch at Galveston, 1985.

**Ogburn-Russell, Lee,** *Assistant Professor of Family and Community Medicine.* (1990) B.S., Medical College of Virginia, 1971; M.S., University of Texas School of Nursing, 1979; Ph.D., 1987.

**\*Ogden, Paul E.,** *Associate Professor of Internal Medicine.* (1985, 1989) B.S., Texas A&M University, 1979; B.S., 1979; M.D., Texas A&M University College of Medicine, 1981.

**Okeson, Gyman C.,** *Professor of Internal Medicine.* (1979, 1981) B.S., University of North Dakota, 1958; B.S., 1968; M.D., Baylor College of Medicine, 1962.

**Oliver, Sandra K.,** *Assistant Professor of Family and Community Medicine.* (1990) B.S., University of Texas Medical School at Galveston, 1967; M.A., University of Iowa, 1973; Ph.D., 1979.

**Oltorf, Charles E.,** *Associate Professor of Pediatrics.* (1981) B.A., University of Texas, 1964; M.D., University of Texas Medical Branch at Galveston, 1968.

**O'Neal, Michael A.,** *Assistant Professor of Family and Community Medicine.* (1984) B.S., Texas A&M University, 1976; D.O., Texas College of Osteopathic Medicine, 1981.

**Opersteny, Steve C.,** *Clinical Assistant Professor of Surgery.* (1991) P.T., University of Texas Southwestern Medical School, 1980; M.D., University of Texas Medical Branch at Galveston, 1986.

**Orman, David T.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1989) B.S., Midwestern State University, 1977; M.D., Uniformed Services University of Health Sciences, 1982.

**Osman, Mark**, *Associate Professor of Internal Medicine*. (1983, 1988) B.S., University of Rochester, 1963; M.D., Albert Einstein College of Medicine, 1968.

**Pace, C. Nick**, *Professor of Medical Biochemistry and Genetics*. (1990) B.S., University of Utah, 1962; Ph.D., Duke University, 1966.

**Pandya, Parikshit P.**, *Assistant Professor of Surgery*. (1985) M.B.B.S., Grant Medical College at Bombay (India), 1973.

**Parkinson, Donna L.**, *Clinical Instructor in Psychiatry and Behavioral Science*. (1991) B.S., Southeast Missouri State University, 1984; M.A., University of Arkansas, 1987; Ph.D., University of Arkansas, 1990.

**Parks, Jim T.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1981) B.A., Hardin-Simmons University, 1956; M.Ed., Texas A&M University, 1965; M.S., Florida State University, 1973; Ph.D., 1975.

**Parr, Jesse W.**, *Clinical Assistant Professor of Pediatrics*. (1978, 1981) B.S., Louisiana State University, 1969; M.D., Louisiana State University School of Medicine, 1973.

**Parr, Thomas E.**, *Instructor in Psychiatry and Behavioral Science*. (1990) Diploma, Alexian Brothers Hospital's School of Nursing, 1961; B.S., Medical College of Georgia, 1976; M.A., University of Northern Colorado, 1982.

**Patel, Anila S.**, *Clinical Assistant Professor of Pediatrics*. (1983) B.S., Arya Girls Senior School (Kenya), 1962; M.B.B.S., Baroda Medical College (India), 1971.

**Patel, Kanu A.**, *Clinical Assistant Professor of Internal Medicine*. (1987) M.B.B.S., Medical College at Baroda (India), 1976.

**Patel, Sudhir D.**, *Clinical Assistant Professor of Family and Community Medicine*. (1981) M.B.B.S., Grant Medical College (Bombay), 1970.

**Patterson, Karen M.**, *Assistant Professor of Obstetrics and Gynecology*. (1989) B.S., Texas Tech University 1981; M.D., University of Texas Medical School, 1985.

**Paull, Barry R.**, *Assistant Professor of Pediatrics and of Medical Microbiology and Immunology*. (1979, 1981) B.Sc., University of Wisconsin, 1969; M.D., University of Miami School of Medicine, 1973; M.S., Mayo Graduate School of Medicine and the University of Minnesota, 1978.

**Pearce, Richard W.**, *Clinical Associate Professor of Family and Community Medicine*. (1982) B.A., Emory University, 1964; M.D., Tulane University School of Medicine, 1968.

**Peeples, William**, *Assistant Professor of Family and Community Medicine*. (1987) B.A., Johns Hopkins University, 1976; M.D., Georgetown University School of Medicine, 1980.

**Perez-Guerra, Francisco**, *Professor of Internal Medicine and Associate Professor of Surgery*. (1983, 1991) B.S., University of Puerto Rico, 1956; M.D., University of Puerto Rico School of Medicine, 1960.

**Petersen, William G.**, *Assistant Professor of Internal Medicine and of Surgery*. (1987, 1989) B.A., Rice University, 1978; M.D., University of Missouri at Columbia School of Medicine, 1982.

**Peterson, David D.**, *Assistant Professor of Surgery*. (1981) B.S., Bemidji State College, 1965; M.A., St. Cloud State University, 1969; Ph.D., University of New Mexico, 1973.

**Peterson, Robert F.**, *Professor of Pathology and Laboratory Medicine and of Pediatrics*. (1977, 1990) M.D., University of Oklahoma College of Medicine, 1957.

**Peterson, Steven L.**, *Associate Professor of Medical Pharmacology and Toxicology*. (1982, 1988) B.S., University of California at Davis, 1975; Ph.D., 1980.

- Peterson, Thomas V.**, *Associate Professor of Medical Physiology*. (1979, 1985) B.S., Bethany College, 1968; Ph.D., University of Oklahoma Health Sciences Center, 1977.
- Petty, F. Charles**, *Associate Professor of Radiology and of Nuclear Engineering*. (1977, 1991) M.D., University of Tennessee College of Medicine, 1954.
- Pichot, J. Thomas**, *Assistant Professor of Psychiatry and Behavioral Science*. (1989) B.S., University of Texas, 1981; M.D., University of Texas Southwestern Medical School, 1985.
- Pickle, Jerry R.**, *Assistant Professor of Humanities in Medicine*. (1985) B.A., University of Houston, 1969; J.D., University of Houston Bates College of Law, 1971.
- Pisar, Donald E.**, *Professor of Surgery*. (1977, 1981) B.A., Doane College, 1953; M.D., University of Nebraska College of Medicine, 1957.
- Pischinger, Russell J.**, *Assistant Professor of Radiology*. (1988) B.S., Arizona State University, 1965; M.D., Ohio State University College of Medicine, 1972.
- Piziak, Veronica K.**, *Associate Professor of Internal Medicine*. (1981, 1984) B.S., University of Massachusetts, 1963; M.S., 1965; Ph.D., 1970; M.D., University of Kentucky College of Medicine, 1976.
- Pliego, Jose F.**, *Assistant Professor of Obstetrics and Gynecology*. (1984) B.S., Instituto Regiomontano Monterrey (Mexico), 1969; M.D., Universidad Autonoma del Edo de Mexico, Toluca (Mexico), 1974.
- Pokala, Nagaprasadrao**, *Assistant Professor of Internal Medicine*. (1991) P.U.C., Vivekananda College of Madras (India), 1968; M.B.B.S., Osmania Medical College of Hyderabad, 1975.
- Pokala, Suma**, *Assistant Professor of Internal Medicine*. (1991) B.S., Mary Stella College, 1976; M.B.B.S., Andhra Medical College, 1982.
- Polepalle, Chandrasekhar**, *Assistant Professor of Internal Medicine*. (1991) B.S., Andhra Pradesh Agricultural University of Hyderabad (India), 1971; M.S., 1974; M.D., UTESA School of Medicine at Santo Domingo (Dominican Republic), 1985.
- Pollock, Barbara L. M.**, *Assistant Professor of Surgery*. (1981) B.A., University of Missouri, 1973; M.D., University of Missouri-Columbia School of Medicine, 1978.
- Pope, Henry D., Jr.**, *Clinical Professor of Family and Community Medicine*. (1979, 1981) B.S., Tulane University, 1951; M.D., Tulane University School of Medicine, 1955.
- Posey, Delma P.**, *Associate Professor of Internal Medicine*. (1979, 1981) B.S., Texas A&M University, 1959; M.D., Baylor College of Medicine, 1963.
- Prasad, Motaparthi R.**, *Assistant Professor of Internal Medicine*. (1991) M.D., Medical School at Gulbarga Karnataka (India), 1969.
- Pratt, Franklin G.**, *Assistant Professor of Radiology*. (1988) B.A., University of South Dakota, 1962; B.S., 1962; M.A., 1962; M.D., University of Nebraska College of Medicine, 1964.
- Prescott, J. Mack**, *Emeritus Professor of Medical Biochemistry and Genetics*. (1952, 1985) B.S., Southwest Texas State University, 1941; M.S., Texas A&M University, 1949; Ph.D., University of Wisconsin, 1952.
- Price, Larry D.**, *Assistant Professor of Internal Medicine and of Surgery*. (1987, 1989) B.S., Baylor University, 1974; M.A., 1975; D.O., Texas College of Osteopathic Medicine, 1980.
- Prihoda, Clarence H., Jr.**, *Clinical Assistant Professor of Family and Community Medicine*. (1989) B.S., Texas A&M University, 1976; M.D., Louisiana State University Medical Branch at Shreveport, 1980.
- Prince-Flocco, Marilynn A.**, *Associate Professor of Internal Medicine*. (1985, 1989) B.S., Duke University, 1975; M.D., Duke University School of Medicine, 1979.
- \*Probe, Robert A.**, *Assistant Professor of Surgery*. (1990) B.S., Texas A&M University, 1982; M.D., Texas A&M University College of Medicine, 1984.



**Pullen, Thomas F.**, *Assistant Professor of Family and Community Medicine*. (1986) B.S., Baylor University, 1970; M.D., University of Texas Medical Branch at Galveston, 1974.

**Quarles, Joan E.**, *Lecturer in Human Anatomy and Medical Neurobiology*. (1982, 1990) B.S., Michigan State University, 1965; M.S., 1969.

**Quarles, John M.**, *Professor of Medical Microbiology and Immunology*. (1976, 1991) B.S., Florida State University, 1963; M.S., 1965; Ph.D., Michigan State University, 1973.

**Quick, Donald P.**, *Assistant Professor of Internal Medicine*. (1988) B.S., Oral Roberts University, 1978; M.D., Baylor College of Medicine, 1982.

**Quinn, William L.**, *Associate Professor of Internal Medicine*. (1992) B.A., University of Maryland, 1972; M.S., George Washington University Medical Center, 1974; M.D., St. George's University School of Medicine, West Indies, 1982.

**Quinones, Ramon**, *Clinical Assistant Professor of Surgery*. (1991) B.S., University of Puerto Rico, 1970; M.D., University of Puerto Rico School of Medicine, 1973.

**Rae, William A.**, *Associate Professor of Psychiatry and Behavioral Science and of Pediatrics*. (1981, 1984) B.A., University of California at Berkeley, 1970; Ph.D., University of Texas, 1975.

**Raebel, Marsha A.**, *Assistant Professor of Internal Medicine*. (1982) B.S., South Dakota State University, 1976; Pharm.D., University of Texas Health Science Center at San Antonio, 1979.

**Ramos, Kenneth S.**, *Associate Professor of Medical Physiology and of Veterinary Physiology and Pharmacology*. (1990) B.S., University of Puerto Rico, 1978; Ph.D., University of Texas, 1983.

**Randles, Jimmy R.**, *Assistant Professor of Family and Community Medicine*. (1985, 1986) B.S., Baylor University, 1969; M.D., University of Texas Medical Branch at Galveston, 1973.

**Ransom, Daniel G.**, *Assistant Professor of Pediatrics*. (1988) B.S., Texas A&M University, 1980; M.D., University of Texas Medical Branch at Galveston, 1985.

**Rappaport, Edward S.**, *Associate Professor of Pathology and Laboratory Medicine*. (1982) B.S., University of Illinois-Chicago, 1966; M.D., Loyola University Stritch School of Medicine, 1969.

**Raspberry, Leon W. B.**, *Clinical Associate Professor of Obstetrics and Gynecology*. (1979, 1981) B.S., Oklahoma Baptist University, 1960; M.D., Baylor College of Medicine, 1964.

**\*Rascoe, Terry G.**, *Assistant Professor of Family and Community Medicine*. (1988) B.S., Baylor University, 1981; M.D., Texas A&M University College of Medicine, 1985.

**Ratajczak, Kenneth J.**, *Assistant Professor of Radiology*. (1987) B.S., United States Military Academy at West Point, 1972; M.D., Indiana University School of Medicine, 1977.

**Rawls, Donald E.**, *Assistant Professor of Internal Medicine*. (1991) B.S., University of Texas, 1972; M.D., University of Texas Medical School at Galveston, 1976.

**\*Rayburn, William L.**, *Assistant Professor of Obstetrics and Gynecology*. (1987) B.S., Texas A&M University, 1978; B.S., 1981; M.D., Texas A&M University College of Medicine, 1983.

**Rea, Ted L.**, *Clinical Assistant Professor of Internal Medicine*. (1981) B.S., Texas A&M University, 1973; M.D., University of Texas Medical Branch at Galveston, 1975.

**Reddy, Kota D.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1992) M.D., Kakatiya Medical College, India, 1966.

**Reed, Ann M.**, *Assistant Professor of Family and Community Medicine*. (1984) A.A., San Antonio Junior College, 1969; B.S., Southwest Texas State University, 1971; M.D., University of Texas Medical Branch at Galveston, 1975.

**Reid, Raymond A.**, *Clinical Associate Professor of Pathology and Laboratory Medicine*. (1977, 1981) M.D., University of Texas Southwestern Medical School, 1944.

**Reid, William H.**, *Associate Professor of Psychiatry and Behavioral Science*. (1992) B.A., University of Minnesota, 1966; M.D., University of Minnesota Medical School, 1970; M.P.H., University of California, Berkeley, 1975.

**Reis, Michael D.**, *Assistant Professor of Family and Community Medicine*. (1987) B.S., Texas A&M University, 1980; M.D., University of Texas Medical School at Houston, 1984.

**Resendes, George J.**, *Assistant Professor of Internal Medicine*. (1988) B.S., Texas Christian University, 1977; B.S., University of Texas Health Science Center, 1980; M.D., University of Texas Medical School at San Antonio, 1985.

**Richardson, Barbara E.**, *Lecturer in Internal Medicine and in Veterinary Public Health*. (1989) B.S., Framingham State College, 1975; S.M., Massachusetts Institute of Technology, 1981; S.M., Harvard University, 1984.

**Richardson, Sidney H.**, *Clinical Professor of Family and Community Medicine*. (1981) B.A., Baylor University, 1948; M.D., University of Texas Medical Branch at Galveston, 1954.

**Riess, Richard L.**, *Assistant Professor of Surgery*. (1986) B.S., Central Michigan University, 1963; M.C.D., University of Oklahoma Medical Center, 1964; Ph.D., University of Utah, 1971.

**Riley, Mark B.**, *Clinical Assistant Professor of Surgery*. (1986) B.A., University of Louisville, 1974; M.D., University of Louisville School of Medicine, 1978.

**Rinehart, John J.**, *Professor of Internal Medicine*. (1990) B.S., Ohio State University, 1967; M.D., 1970.

**Robbins, Karen B.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1986) B.B.A., University of Texas at El Paso, 1972; M.S., Texas A&I University, 1973; Psy.D., Baylor University, 1985.

**Roberson, Charles R.**, *Assistant Professor of Surgery*. (1990) B.A., University of Texas, 1979; M.D. University of Texas Medical School at Galveston, 1986.

**Robert, John P.**, *Clinical Assistant Professor of Surgery*. (1991) B.S., West Point Military Academy, 1977; M.D., Albany Medical School, 1981.

**Roberts, John W.**, *Professor of Surgery*. (1977, 1981) B.S., Baylor University, 1963; M.D., University of Nebraska College of Medicine 1967.

**Robertson, Lester E.**, *Assistant Professor of Family and Community Medicine*. (1987) B.A., Baylor University, 1952; M.D., Baylor College of Medicine, 1956.

**Robertson, W. Carroll**, *Assistant Professor of Family and Community Medicine*. (1987) B.A., Baylor University, 1955; M.D., University of Texas Southwestern Medical School, 1960.

**Robinson, Haywood J.**, *Clinical Assistant Professor of Family and Community Medicine*. (1982) B.S., California Institute of Technology, 1974; M.D., University of California College of Medicine, 1978.

**Rohack, J. James**, *Assistant Professor of Internal Medicine*. (1986) B.S., University of Texas at El Paso, 1976; M.D., University of Texas Medical Branch at Galveston, 1980.

**Roman, William B., Jr.**, *Clinical Associate Professor of Obstetrics and Gynecology*. (1979, 1981) B.A., University of Texas, 1948; B.S., 1949; B.S., Texas A&M University, 1951; M.D., University of Texas Medical Branch at Galveston, 1954.

**Roquet, Warren P.**, *Clinical Assistant Professor of Family and Community Medicine*. (1990) B.S., Texas A&M University, 1977; M.D., University of Texas Medical Branch at Galveston, 1981.

**Rosen, David H.**, *Professor of Psychiatry and Behavioral Science, of Humanities in Medicine and of Psychology*. (1986, 1989) B.A., University of California at Berkeley, 1966; M.D., University of Missouri-Columbia School of Medicine, 1970.

**Rosenberger, Randall S.**, *Assistant Professor of Internal Medicine*. (1986) B.S., University of Texas, 1973; M.D., University of Texas Medical Branch at Galveston, 1977.

**Rosiles, Joseph R.**, *Assistant Professor of Family and Community Medicine*. (1985) B.S., Texas Tech University, 1975; M.D., University of Texas Medical Branch at Galveston, 1980.

**Rudd, David M.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1990) B.A., Princeton University, 1983; M.A., University of Texas, 1984; Ph.D., 1987.

**Ruff, Tibor**, *Professor of Surgery*. (1979, 1984) B.A., University of Western Ontario (Canada), 1964; M.D., University of Ottawa (Canada), 1968.

**Russell, Charles M.**, *Instructor in Psychiatry and Behavioral Science*. (1989) B.S., University of Maryland, 1979; B.S., University of Oklahoma, 1985; M.Ed., Boston University, 1981.

**Russell, Gül A.**, *Associate Professor of Humanities in Medicine*. (1989) B.A., Lindenwood College, 1958; Ph.D., Indiana University, 1962.

**Russell, Ian S.**, *Professor and Interim Head of Human Anatomy and Medical Neurobiology*. (1989) B.A., University of Nottingham (England), 1955; Ph.D., Indiana University, 1961; D.Sc., University of Nottingham (England), 1987.

**Russell, Leon H., Jr.**, *Professor of Medical Microbiology and Immunology and of Veterinary Public Health*. (1978) B.S., University of Missouri, 1956; D.V.M., 1956; M.P.H., Tulane University, 1958; Ph.D., Texas A&M University, 1965.

**Ryan, Jeanne W.**, *Assistant Professor of Internal Medicine*. (1991) B.A., University of Texas at Austin, 1977, M.D., University of Texas Medical School at Galveston, 1981.

**\*Ryan, Patrick B.**, *Assistant Professor of Surgery*. (1990) B.S., Texas A&M University 1980; M.D., Texas A&M University College of Medicine, 1982.

**Rye, Patricia D.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1990) B.A., Augusta College, 1979; M.S., 1980; Ph.D., Vanderbilt University, 1985.

**Rynearson, Robert R.**, *Professor of Psychiatry and Behavioral Science*. (1977, 1981) B.A., Harvard University, 1954; M.D., University of Minnesota School of Medicine, 1958.

**Salzman, Virginia H.**, *Instructor in Surgery*. (1984) B.S., Baylor University, 1977; M.S., 1978.

**Sammer, Edwin A.**, *Associate Dean for Veterans Affairs-Temple, College of Medicine, and Assistant Professor of Internal Medicine*. (1989) B.A., Southern College, 1969; M.D., Loma Linda University College of Medicine, 1974; M.P.H., Harvard University School of Public Health, 1988.

**Sampson, H. Wayne**, *Associate Professor of Human Anatomy and Medical Neurobiology*. (1979, 1983) B.S., University of Texas at Arlington, 1967; Ph.D., Baylor University, 1970.

**Sanchez, Phyllis N.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1992) B.S., University of Washington, 1981; M.A., University of Arizona, 1985; Ph.D., 1989.

**Sanders, Charles W.**, *Assistant Professor of Obstetrics and Gynecology*. (1986) B.S., University of Houston, 1977; M.D., University of Texas Medical School at San Antonio, 1981.

**Sartorius, Norman**, *Professor of Psychiatry and Behavioral Science*. (1992) Ph.D., Faculty of Psychology, University of Zagreb, 1965; M.D., School of Medicine, University of Zagreb, 1958.

**Sayre, Jerry W.**, *Assistant Professor of Family and Community Medicine*. (1981, 1987) B.S., University of Texas at El Paso, 1971; M.D., Baylor College of Medicine, 1974.

**Schellhase, Dennis E.**, *Assistant Professor of Pediatrics and of Surgery*. (1989) M.D., University of Texas Medical Branch at Galveston, 1983.

**Schlabach, Michael R.**, *Assistant Professor of Internal Medicine*. (1981) B.S., Texas A&M University, 1973; M.S., 1974; M.D., University of Texas Medical Branch at Galveston, 1978.

**Schoolar, E. Jerome, Jr.**, *Associate Professor of Radiology*. (1977, 1981) B.S., Texas Wesleyan College, 1958; M.D., University of Oklahoma College of Medicine, 1964.

**Schuchmann, John A.**, *Associate Professor of Internal Medicine*. (1981) B.A., Ohio State University, 1968; M.D., Ohio State University College of Medicine, 1971.

**Schulze, Victor E., Jr.**, *Professor of Internal Medicine*. (1978, 1983) B.A., University of Texas, 1950; M.D., University of Texas Medical Branch at Galveston, 1954; M.P.H., Harvard University School of Public Health, 1959.

**Scott, Susan M.**, *Instructor of Surgery*. (1990) B.S., University of Texas, 1981; M.S., Southwest Texas State University, 1984.

**Segrest, David R.**, *Clinical Associate Professor of Family and Community Medicine*. (1978, 1981) B.S., Baylor University, 1965; M.D., Baylor College of Medicine, 1969.

**Self, Donnie J.**, *Professor and Head of Humanities in Medicine and Associate Professor of Pediatrics*. (1983, 1990) B.S., Furman University, 1965; B.A., 1967; M.A., University of North Carolina, 1969; Ph.D., 1973.

**Shah, Rajnikant S.**, *Assistant Professor of Radiology*. (1981) M.B.B.S., Government Medical College (India), 1968; M.S., University, Baroda (India), 1973.

**Shanmugam, Aiyandar**, *Clinical Assistant Professor of Internal Medicine*. (1984) M.B.B.S., Madurai Medical College (India), 1976.

**Sharp, James G.**, *Assistant Professor of Family and Community Medicine*. (1991) A.A., Tyler Junior College, 1974; B.S., Stephen F. Austin State University, 1976; M.D., University of Texas Medical School at San Antonio, 1985.

**Shipman, Nolan D.**, *Clinical Assistant Professor of Surgery*. (1978, 1981) B.A., Asbury College, 1962; M.D., Ohio State University College of Medicine, 1966.

**Shull, Bob L.**, *Professor of Obstetrics and Gynecology*. (1977, 1985) M.D., Tulane University School of Medicine, 1968.

**\*Sicilio, Mark S.**, *Assistant Professor of Pediatrics*. (1984, 1985) B.S., Texas A&M University, 1979; M.D., Texas A&M University College of Medicine, 1981.

**Silva, Francisco J.**, *Assistant Professor of Family and Community Medicine*. (1989) B.S., Pan American University, 1978; M.D., University of Texas Medical School at San Antonio, 1983.

**Silver, Morris M.**, *Assistant Professor of Obstetrics and Gynecology*. (1991) B.A., University of Washington, 1983; D.O., University of Osteopathic Medicine, 1987.

**Skow, Loren C.**, *Associate Professor of Medical Biochemistry and Genetics and of Veterinary Anatomy*. (1991) B.S., Abilene Christian University, 1969; M.S., 1971; Ph.D., Texas A&M University, 1976.

**Skrovan, Susan S.**, *Clinical Associate Professor of Pediatrics*. (1981) B.S., College of St. Catherine, 1958; M.D., University of Texas Medical Branch at Galveston, 1961.

**Smith, Daniel J.**, *Assistant Professor of Internal Medicine*. (1981) B.S., Baylor University, 1972; M.D., University of Texas Medical Branch at Galveston, 1976.

**Smith, David A.**, *Assistant Professor of Internal Medicine*. (1991) B.S., New Mexico Institute of Mining and Technology, 1979; M.D., University of New Mexico School of Medicine, 1982.

**Smith, Elvin E.**, *Associate Vice President for Health Affairs, Associate Dean and Professor of Medical Physiology*. (1975, 1991) B.S., William Carey College, 1960; Ph.D., University of Mississippi Medical Center, 1964.

**Smith, George W.**, *Clinical Associate Professor of Family and Community Medicine*. (1989) B.A., Texas A&M University, 1940; M.D., University of Texas Southwestern Medical School, 1955.

**Smith, Glen A.**, *Assistant Professor of Internal Medicine*. (1988) B.A., Texas Tech University, 1979; M.D., University of Texas Medical Branch at Galveston, 1985.

**Smith, Kyle H.**, *Assistant Professor of Surgery*. (1990) B.S., Lubbock Christian College, 1982; M.D., University of Texas Medical School at San Antonio, 1986.

**Smith, Randall W.**, *Assistant Professor of Surgery*. (1986) B.S., Baylor University, 1976; M.D., Wayne State University School of Medicine, 1981.

**Smith, Randy W.**, *Clinical Assistant Professor of Obstetrics and Gynecology*. (1987) B.A., Austin College, 1978; M.D., University of Texas Medical School at Houston, 1982.

**Smith, Richard A.**, *Assistant Professor of Family and Community Medicine*. (1986) B.S., Texas A&M University, 1979; M.D., University of Texas Medical School at Houston, 1983.

**Smith, Steven L.**, *Assistant Professor of Family and Community Medicine*. (1981) B.S., Midwestern State University, 1973; M.D., University of Texas Medical Branch at Galveston, 1977.

**Snyder, Samuel K.**, *Professor of Surgery*. (1981, 1991) B.A., Dartmouth College, 1970; M.D., Loyola University Stritch School of Medicine, 1974.

**Spann, June M.**, *Assistant Professor of Internal Medicine*. (1991) M.D., University of Texas Southwestern Medical School, 1982.

**Speights, V.O., Jr.**, *Assistant Professor of Pathology and Laboratory Medicine*. (1986) B.S., Texas A&M University, 1974; D.O., Texas College of Osteopathic Medicine, 1980.

**Spencer, Derek V.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1989) B.S., Howard University, 1962; M.P.H., Columbia University School of Public Health, 1971; M.D., Howard University College of Medicine, 1967.

**Spiekerman, A. Michael**, *Associate Professor of Pathology and Laboratory Medicine*. (1977, 1981) B.S., Southwestern University, 1965; M.S., Texas A&M University, 1968; Ph.D., University of Texas at Austin, 1972.

**Stark, Earl W.**, *Professor of Surgery*. (1983) B.A., University of Utah, 1957; M.A., Ohio State University, 1958; Ph.D., University of Minnesota, 1963.

**Starks, Ralph R.**, *Assistant Professor of Radiology*. (1992) B.A., Columbia Union College, 1953; M.D., Loma Linda University School of Medicine, 1963.

**Starr, John C.**, *Professor and Head of Internal Medicine*. (1977, 1980) B.S., University of Virginia, 1961; M.D., University of Virginia School of Medicine, 1965.

**Stauch, Douglas M.**, *Clinical Assistant Professor of Surgery*. (1979, 1981) B.A., University of South Dakota, 1966; M.D., Baylor College of Medicine, 1970.

**Stauffer, Curtis**, *Instructor in Internal Medicine*. (1989) B.S., University of Texas, 1983; M.D. University of Texas Medical Branch at Galveston, 1987.

**Steele, A. Dean**, *Professor of Internal Medicine*. (1979, 1981) B.S., University of Delaware, 1956; M.D., University of Pennsylvania School of Medicine, 1960.

**Stewart, Warren L.**, *Associate Professor of Psychiatry and Behavioral Science*. (1977, 1981) B.S., Western Illinois University, 1951; M.A., MacMurray College, 1953.

**Stigler, Del B.**, *Clinical Assistant Professor of Family and Community Medicine*. (1979, 1990) B.A., University of Colorado, 1971; M.D., University of Colorado School of Medicine, 1974.

**Stoebner, John M.**, *Associate Professor of Radiology*. (1977, 1981) B.S., Loyola University, 1956; M.D., University of Texas Medical Branch at Galveston, 1959.

**Stoltenberg, Phillip H.**, *Associate Professor of Internal Medicine*. (1983, 1986) B.S., University of Minnesota, 1972; M.D., University of Minnesota Medical School, 1976.

**Stone, Bryan**, *Assistant Professor of Family and Community Medicine*. (1985) B.Sc., University of Birmingham (England), 1957; M.B.B.S., Birmingham Medical School (England), 1960.

**Stone, Robert S.**, *Director of the Center for Health Systems and Technology, and Professor of Pathology and Laboratory Medicine*. (1978, 1987) B.A., Brooklyn College, 1942; M.D., State University of New York College of Medicine, 1950.

**Street, Richard L.**, *Professor of Internal Medicine and of Speech Communications*. (1991) B.A., Texas Tech University, 1975; M.A., 1977; Ph.D., University of Texas, 1980.

- Struck, Douglas K.**, *Associate Professor of Medical Biochemistry and Genetics*. (1980, 1986) A.B., Brown University, 1973; Ph.D., Johns Hopkins University, 1978.
- Stuckey, Daniel E.**, *Assistant Professor of Family and Community Medicine*. (1984, 1985) B.S., University of Texas at El Paso, 1972; M.D., Baylor College of Medicine, 1975.
- Sulak, Patricia J.**, *Assistant Professor of Obstetrics and Gynecology*. (1987) B.S., University of Houston College of Pharmacy, 1975; M.D., University of Texas Medical School at San Antonio, 1980.
- Sutton, Beverly J.**, *Associate Professor of Psychiatry and Behavioral Science*. (1992) M.D., University of Michigan Medical School, 1957.
- Svoboda, Christine J.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1988) B.S., Regis College, 1973; M.S., California School of Professional Psychology at San Diego, 1976; Psy.D., Baylor University, 1980.
- Swanson, Gregory P.**, *Assistant Professor of Radiology*. (1989) B.S., University of Texas Health Sciences Center, 1980; M.D., University of Texas Medical School at Houston, 1985.
- Symmonds, Richard E., Jr.**, *Associate Professor of Surgery*. (1979, 1986) B.A., Colorado College, 1970; M.D., Emory University School of Medicine, 1974.
- Tate, Claude B., Jr.**, *Associate Professor of Surgery*. (1979, 1981) B.S., Sam Houston State College, 1956; M.D., University of Texas Medical Branch at Galveston, 1960.
- Taylor, Donald J.**, *Assistant Professor of Surgery*. (1987) B.S., Beloit College, 1948; M.D., University of Chicago Pritzker School of Medicine, 1952.
- Teaford, A. Kent**, *Associate Professor of Radiology*. (1979, 1981) B.S., Ohio State University, 1962; M.D., Northwestern University Medical School, 1966.
- Terry, E. Eugene**, *Professor of Internal Medicine and of Surgery*. (1979, 1989) B.S., University of Texas at Austin, 1966; M.D., Baylor College of Medicine, 1970.
- Thacher, Scott M.**, *Assistant Professor of Medical Biochemistry and Genetics*. (1986) B.S., Stanford University, 1972; Ph.D., Harvard University, 1980.
- Thakrar, Mahendra O.**, *Clinical Assistant Professor of Family and Community Medicine*. (1981) M.B.B.S., Grant Medical College, Bombay (India), 1971.
- Thompson, David C.**, *Assistant Professor of Medical Pharmacology and Toxicology*. (1990) B.S., Wheaton College, 1975; M.S., University of Minnesota, 1979; Ph.D., John Hopkins University, 1986.
- Thompson, John Q., Jr.**, *Associate Professor of Pediatrics*. (1979, 1985) B.A., University of Texas at Austin, 1971; D.O., Texas College of Osteopathic Medicine, 1975.
- Todd, Frederick D. II**, *Assistant Professor of Surgery*. (1988) B.S., University of Texas, 1975; M.D., University of Texas Southwestern Medical School, 1979.
- Togami, Joan A.**, *Instructor in Surgery*. (1990) A.A., Kilgore Junior College, 1982; B.S., Baylor University, 1984; M.S., 1985.
- Tolciu, Patricia E.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1989) B.A., Chestnut Hill College, 1979; M.A., Loyola College, 1982; Psy.D., Baylor University, 1987.
- Tolls, Ronald M.**, *Clinical Assistant Professor of Surgery*. (1991) B.S., Oregon State University, 1964; M.D., University of Oregon Medical School, 1966.
- Tongco, Russ C.**, *Clinical Assistant Professor of Family and Community Medicine*. (1986) M.D., University of the Philippines, 1957.
- Tracey, Thomas N.**, *Assistant Professor of Internal Medicine*. (1987) B.A., University of Texas, 1977; M.D., University of Texas Medical School at Houston, 1982.
- Tripathy, Kumud S.**, *Clinical Assistant Professor of Internal Medicine*. (1982) B.S., Science College, Patna (India), 1965; M.D., Prince of Wales Medical College, Patna (India), 1971.

**Trompler, Raymond A.**, *Assistant Professor of Pathology and Laboratory Medicine*. (1984) B.A., Southwestern University, 1962; M.D., University of Texas Medical Branch at Galveston, 1966.

**Trowbridge, Arthur A.**, *Professor of Internal Medicine*. (1979, 1989) B.S., West Virginia University, 1962; M.D., West Virginia Medical School, 1966.

**\*Truitt, Tim D.**, *Assistant Professor of Radiology*. (1991) B.S., Abilene Christian University, 1982; M.D., Texas A&M University College of Medicine, 1987.

**Trzeciakowski, Jerome P.**, *Associate Professor of Medical Pharmacology and Toxicology*. (1980, 1986) B.S., Lehigh University, 1974; Ph.D., University of Florida, 1978.

**Tsai, Chien L.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1991) M.D., China Medical College (Taiwan), 1967.

**Tseng, Stephen S.**, *Clinical Assistant Professor of Internal Medicine*. (1985) B.S., Rice University, 1978; M.D., University of Texas Southwestern Medical School, 1982.

**Tuggle, Roger D.**, *Assistant Professor of Surgery*. (1990) B.S., University of Tennessee, 1975; M.D., 1978.

**Turvey, Douglas E.**, *Assistant Professor of Family and Community Medicine*. (1982) B.A., Augustana College, 1972; M.D., University of Illinois College of Medicine, 1976.

**\*Tyler, Barbara A.**, *Assistant Professor of Humanities in Medicine*. (1990) B.A., Cornell University, 1975; M.D., Texas A&M University College of Medicine, 1984.

**Van Wormer, Valerie**, *Assistant Professor of Internal Medicine*. (1987, 1988) B.S., University of Wisconsin, 1980; M.D., University of Wisconsin, 1984.

**Vedlitz, Arnold**, *Professor of Health Policy*. (1992) B.A., Louisiana State University, 1968; M.A., 1970; Ph.D., University of Houston, 1975.

**Venus, Carol A.**, *Assistant Professor of Surgery*. (1986) B.S., Loyola University of Chicago, 1973; M.A., Vanderbilt University, 1975; Ph.D., Northwestern University, 1983.

**Verdonk, Carlos A.**, *Associate Professor of Internal Medicine*. (1981, 1985) B.S., Universite Notre-Dame de la Paix (Belgium), 1969; M.D., Rijksuniversiteit, Ghent (Belgium), 1973.

**Verheyden, Charles N.**, *Associate Professor of Surgery*. (1981, 1986) B.A., University of Texas, 1968; Ph.D., University of Texas Medical Branch at Galveston, 1973; M.D., 1973.

**Vermeire, Betty A.**, *Visiting Assistant Professor of Human Anatomy and Medical Neurobiology*. (1991) B.S., Allegheny College, 1974; Ph.D., California Institute of Technology, 1980.

**Villamaria, Frank J.**, *Assistant Professor of Surgery*. (1989) B.S., Pittsburg State University - Kansas, 1977; M.D., University of Kansas School of Medicine, 1980.

**Villarreal, Roque II**, *Assistant Professor of Family and Community Medicine*. (1991) B.A., University of Texas, 1984; M.D., University of Texas Medical School at San Antonio, 1988.

**Visintine, Robert E.**, *Assistant Professor of Internal Medicine*. (1990) B.S., Notre Dame University, 1953; M.D., Ohio State University, 1957.

**Wagner, Jackson W.**, *Professor of Human Anatomy and Medical Neurobiology*. (1974, 1989) A.B., Fresno State College, 1957; Ph.D., University of California, 1960; M.D., Baylor College of Medicine, 1973.

**Wagner, William J.**, *Professor of Medical Administration*. (1992) B.S., West Texas State University, 1950; M.D., University of Texas Medical Branch at Galveston, 1954.

**Wahlen, Alfred H.**, *Associate Professor of Surgery*. (1982) M.D., University of Bonn (Germany), 1950.

- Wajima, Takeshi**, *Associate Professor of Internal Medicine*. (1985, 1987) B.S., Kanazawa Pharmaceutical College (Japan), 1952; M.D., University of Kanazawa School of Medicine (Japan), 1960; Ph.D., Yamaguchi Medical School (Japan), 1966.
- Walker, Stephen C.**, *Assistant Professor of Internal Medicine*. (1986) B.S., North Texas State University, 1977; M.D., University of Texas Medical School at Houston, 1983.
- Wallace, Tracy I.**, *Professor of Internal Medicine*. (1977, 1981) B.S., University of Kentucky, 1946; M.D., University of Cincinnati College of Medicine, 1949.
- Walsh, Ronald E.**, *Professor of Internal Medicine and of Surgery*. (1979, 1989) B.S., Bowling Green State University, 1957; M.D., Ohio State University College of Medicine, 1961.
- Ward, William E.**, *Professor of Medical Physiology and College Registrar*. (1975, 1991) A.B., Ohio University, 1950; M.A., Duke University, 1952; Ph.D., Kent State University, 1967.
- Wardell, Ferman N.**, *Instructor in Surgery*. (1986) B.S., University of Texas, 1974; M.A., 1976.
- Warner, Michael R.**, *Assistant Professor of Surgery*. (1988) B.A., Abilene Christian University, 1977; M.S., 1978; D.D.S., University of Texas Health Science Center at San Antonio, 1982.
- Watson, Linley E.**, *Professor of Internal Medicine*. (1979, 1984) B.A., University of Kansas, 1962; M.D., University of Kansas School of Medicine, 1966.
- Watson, R. Bruce**, *Assistant Professor of Family and Community Medicine*. (1987) B.S., University of Texas at Arlington, 1975; M.D., University of Texas Medical Branch at Galveston, 1979.
- Waugh, David E.**, *Professor of Surgery*. (1981) B.S., University of Dayton, 1951; M.D., Ohio State University College of Medicine, 1955.
- Waxman, Jeffrey A.**, *Assistant Professor of Surgery*. (1988) B.S., Yale University, 1976; M.D., University of Texas Medical School at San Antonio, 1980.
- Way, James L.**, *Professor of Medical Pharmacology and Toxicology*. (1982) B.A., University of California, 1951; Ph.D., George Washington University, 1955.
- Weed, John M., III**, *Clinical Associate Professor of Family and Community Medicine*. (1981) B.A., Texas Tech University, 1968; M.D., University of Texas Medical Branch at Galveston, 1972.
- Weinblatt, Jack S.**, *Clinical Associate Professor of Family and Community Medicine*. (1982) M.D., Baylor College of Medicine, 1951.
- Weinblatt, James S.**, *Clinical Assistant Professor of Internal Medicine*. (1982) B.S., University of Texas at Austin, 1975; M.D., University of Texas Medical School at San Antonio, 1979.
- \*Weiss, Barbara A.**, *Assistant Professor of Internal Medicine*. (1991) B.S., Baylor University, 1982; M.D. Texas A&M University College of Medicine, 1986.
- Welch, C. Charles**, *Associate Professor of Internal Medicine*. (1979, 1981) B.S., Northwestern University, 1952; M.D., Northwestern Medical School, 1955.
- Weldon, David R.**, *Assistant Professor of Internal Medicine*. (1989) B.S., University of Texas at Arlington, 1979; M.D., Texas Tech Health Sciences Center School of Medicine, 1984.
- Wells, Lawrence H.**, *Clinical Assistant Professor of Family and Community Medicine*. (1985) B.S., Texas A&M University, 1977; M.D., University of Texas Medical School at San Antonio, 1980.
- \*White, Joseph G.**, *Assistant Professor of Internal Medicine*. (1987) B.S., Texas A&M University, 1980; M.D., Texas A&M University College of Medicine, 1982.
- White, Raleigh R., IV**, *Professor of Surgery*. (1979, 1986) B.A., Southern Methodist University, 1963; M.D., University of Pennsylvania School of Medicine, 1967.
- Wilkerson, Mark H.**, *Clinical Assistant Professor of Surgery*. (1990) B.S., Texas A&M University, 1981; M.D., University of Texas Southwestern Medical School, 1985.
- Wilkinson, James T.**, *Associate Professor of Internal Medicine*. (1981, 1985) B.S., Lamar University, 1972; M.D., University of Texas Medical Branch at Galveston, 1976.



**Williams, Kathleen F.,** *Assistant Professor of Internal Medicine.* (1985) M.D., University of Texas Medical Branch at Galveston, 1978.

**Williams, Troy H.,** *Professor of Internal Medicine.* (1983, 1985) B.A., Virginia Military Institute, 1960; M.D., Medical College of Virginia, 1964.

**Willie, Glen R.,** *Assistant Professor of Internal Medicine.* (1981) B.A., University of Chicago, 1969; M.S., University of Minnesota, 1976; M.D., University of Minnesota School of Medicine, 1976.

**Willoughby, Frederick W.,** *Assistant Professor of Psychiatry and Behavioral Science.* (1991) B.S., University of Alabama, 1977; M.S., University of Tennessee, 1981; Ph.D., Texas Tech University, 1985.

**Wilson, Van G.,** *Associate Professor of Medical Microbiology and Immunology.* (1983, 1989) B.S., Georgia Institute of Technology, 1975; Ph.D., Case Western Reserve University, 1980.

**Wincek, Thomas J.,** *Assistant Professor of Obstetrics and Gynecology.* (1984) B.S., University of Minnesota, 1968; M.S., 1970; Ph.D., University of Utah College of Medicine, 1974; M.D., Washington University School of Medicine, 1977.

**Wiprud, Robert M., Jr.,** *Assistant Professor of Family and Community Medicine.* (1988) B.S., College of Great Falls, 1976; M.D., Creighton University School of Medicine, 1980.

**Womack, James E.,** *Professor of Medical Biochemistry and Genetics and of Veterinary Pathology.* (1991) B.S., Abilene Christian College, 1964; Ph.D., Oregon State University, 1968.

**Wright, Paul A.,** *Assistant Professor of Surgery.* (1990) B.A., Kansas State, 1964; M.D., University of Kansas, 1968.

**Wu, Hou Sheng,** *Assistant Professor of Family and Community Medicine.* (1983) M.D., School of Medicine, National Taiwan University Medical College, 1970.

**Wu, John Wai-Chee,** *Assistant Professor of Radiology.* (1988) B.S., University of Chicago, 1954; M.D., Northwestern University Medical School, 1958.

**Wurster, John C.,** *Assistant Professor of Surgery.* (1991) B.A., Lawrence College, 1960; M.D., Northwestern University Medical School, 1964.

**Wyatt, George W.,** *Professor of Obstetrics and Gynecology.* (1991) B.S., Tulane Medical School, 1943; M.D., 1947.

**Yandell, Paul M.,** *Assistant Professor of Obstetrics and Gynecology.* (1988) B.S., New Mexico State University, 1974; M.S., 1977; M.D., University of New Mexico School of Medicine, 1984.

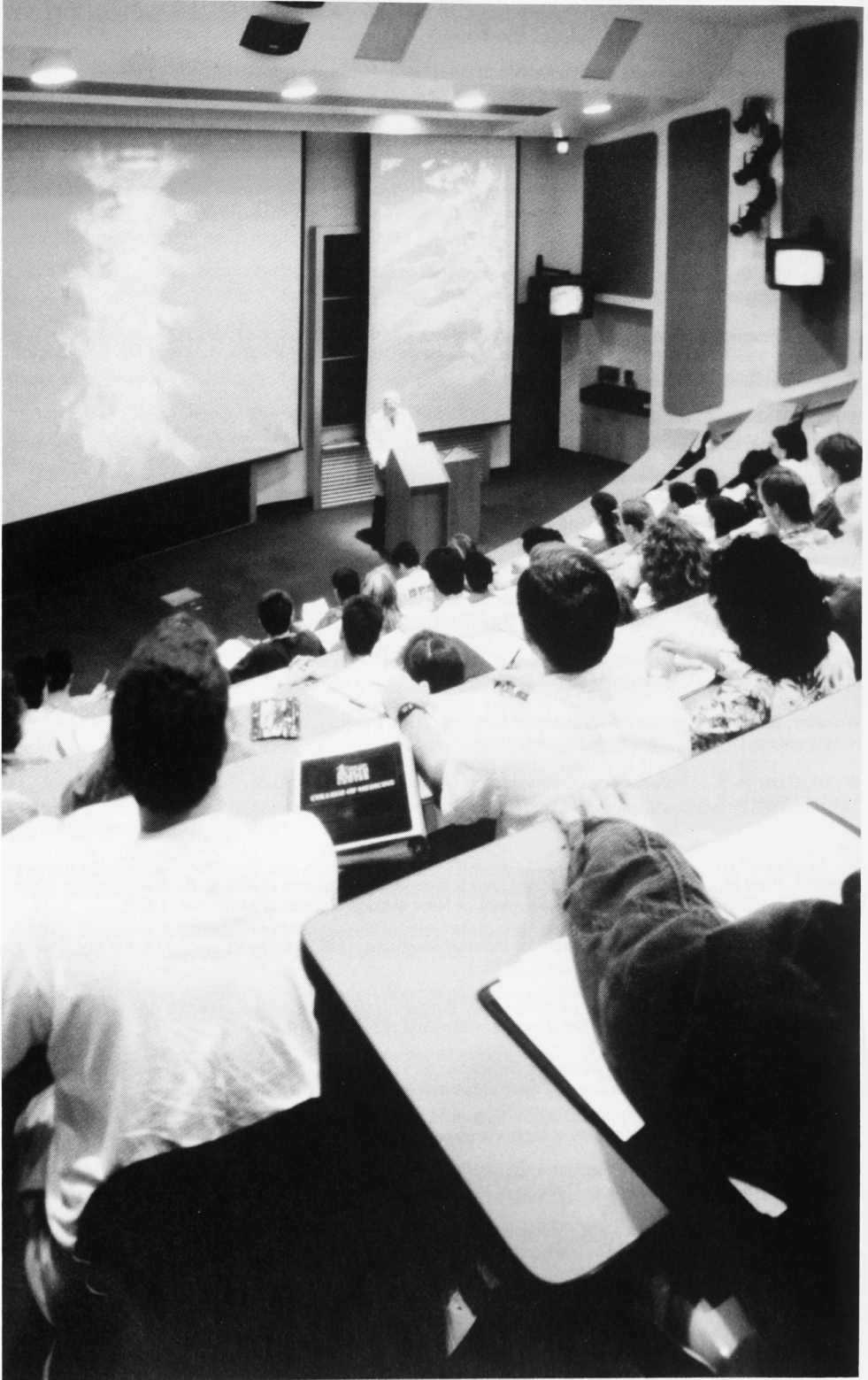
**Yealy, Donald M.,** *Assistant Professor of Internal Medicine.* (1989) B.S., Villanova University, 1981; M.D., Medical College of Pennsylvania, 1985.

**Young, Alan K.,** *Clinical Assistant Professor of Surgery.* (1979, 1981) B.S., Texas A&M University, 1970; M.D., University of Texas Southwestern Medical School, 1974.

**Young, Ralph R., Jr.,** *Clinical Assistant Professor of Surgery.* (1979, 1981) B.S., Texas A&M University, 1966; M.D., University of Texas Southwestern Medical School, 1970.

**Zawleja, David C.,** *Assistant Professor of Medical Physiology.* (1986, 1991) B.S., University of Wisconsin, 1978; Ph.D., Medical College of Wisconsin, 1986.

**Zirl, Robert S.,** *Clinical Assistant Professor of Pathology and Laboratory Medicine.* (1991) B.A., University of Texas, 1978; M.D., University of Texas Medical School at Galveston, 1982.



# GENERAL INFORMATION

## TEXAS A&M UNIVERSITY

Texas A&M University, the state's oldest public institution of higher learning, opened in 1876 with six students in its charter class. In the years that followed, Texas A&M evolved from an all-male military institution into a coeducational university with about 33,000 undergraduate and 7,500 graduate students enrolled in ten academic colleges.

Texas A&M is a land grant university. Its first endowment and building construction funds came from the sale of 180,000 Texas acres under the terms of the Morrill Act of 1862, which specified that the University emphasize study in the agricultural and mechanical arts without excluding other scientific and classical subjects. In 1971, Texas A&M also was designated as a sea grant college in recognition of its achievements in oceanographic and marine resources development. In 1989, Texas A&M became one of a select few institutions nationally with triple land grant, sea grant and space grant designation.

The main campus of Texas A&M is situated on 5,200 acres in College Station, Texas. Its physical plant is assessed at approximately \$1 billion. Texas A&M has the largest university research budget in the South and Southwest and is among the top ten universities nationally in research expenditures.

Texas A&M's traditional strengths lie in engineering, veterinary medicine, and agriculture. Furthermore, it is a pioneer in many of the newer technological areas — biotechnology, space research, nuclear engineering, computer studies, oceanography and marine resources. The rapid growth of the Colleges of Liberal Arts, Business, and Medicine in recent years has further enhanced the diversity of studies Texas A&M offers.

## TEXAS A&M UNIVERSITY COLLEGE OF MEDICINE

The Texas State Legislature authorized establishment of the Texas A&M University College of Medicine in 1971. Funds were appropriated in 1973 jointly by the legislature and the federal government under the Teague-Cranston Bill — The Veterans Administration Medical School Assistance and Health Manpower Training Act. The organization and procedures that govern the College of Medicine conform with the laws of the State of Texas, the *Objectives, Rules, and Regulations* for the Texas A&M University System, and the *Bylaws of the College of Medicine*.

The first students at the College of Medicine, 32 in all, matriculated in 1977. In 1981, the College of Medicine was fully accredited by the Liaison Committee on Medical Education, the national accrediting body for medical schools, to grant the Doctor of Medicine degree. In 1985, the Coordinating Board of the Texas College and University System approved College of Medicine programs for the degrees of Master of Science and Doctor of Philosophy in medical sciences.

Each year, approximately 50 new students are enrolled. Their first two years of instruction take place at Texas A&M University in College Station. The College is housed in the Joe H. Reynolds Medical Building, which was first occupied in 1983, and in the Medical Sciences Library, which opened its doors in 1985. Their second two years of instruction take place on the clinical campus in Temple, Texas, which is located at the Scott and White Memorial Hospital and Clinic and the Olin E. Teague Veterans' Center.

The College of Medicine has established a record for excellence in both medical

education and research. Graduates have an excellent record of performance on the state licensure exam (FLEX) and faculty members are engaged in a wide range of medical research. Faculty members at the College are engaged in medical research that is supported by more than \$3.2 million in grants from the government, corporations and private charities.

## INSTITUTIONAL OBJECTIVES

The goal of faculty members in the Texas A&M University College of Medicine is to provide medical students an opportunity to obtain a sound, basic education in medicine and to maintain a high quality program of research and graduate instruction in the medical sciences. Fundamental to this goal has been the creation of an atmosphere of academic excellence in which the knowledge and skills of medicine can be imparted and attitudes of responsibility and compassion can be fostered.

The faculty of the College is composed of over 600 basic scientists and physicians. The majority of the basic scientists on the faculty teach first and second year students on the College Station campus; about 30 scientists are staff members in the affiliated hospitals. The physicians on the faculty practice medicine in three diverse settings. Approximately 100 practice in solo or small partnerships in Brazos and adjacent counties; about 350 are staff from the Scott and White Memorial Hospital and Clinic; and, approximately 70 are staff at the Olin E. Teague Veterans' Center. In addition, a few faculty members are medical staff at the Veterans Administration Medical Centers in Marlin and Waco, the Darnall U. S. Army Hospital at Fort Hood or are private practitioners elsewhere in Texas.

With these resources, medical students are offered a wide range of clinical experiences from the time of enrollment. Students experience formal clerkships in Scott and White Memorial Hospital and Clinic, a large multispecialty practice that includes a health maintenance organization, and in the veterans' hospitals, which provide care ranging from acute to long-term and domiciliary.

This variety of experiences enables each student to identify his or her career focus or specialty area in medicine. The faculty members of the College of Medicine believe that the four years leading to the M.D. degree are only the beginning of a lifelong process of medical education. They strive to provide each student with the necessary background to pursue any field of specialization she or he may subsequently choose.

In order to take full advantage of the rich collaborative possibilities for research and education at Texas A&M, the College has engaged in a deliberate effort to focus technological capabilities from the entire University on interdisciplinary programs for the enhancement of human health. It has formed a number of institutes to conduct research applicable to diverse disciplines within the University.

Medical education, of course, involves much more than the transfer of scientific information and techniques of patient care. A physician must cultivate a thoughtful moral and ethical outlook. Faculty members expect students to have high ethical standards, and they stand ready to lend assistance through whatever periods of personal uncertainty students may encounter. Personal counseling and formal classes in ethics and humanities are provided to reinforce the fundamental influence of committed role models. Students at the College of Medicine can expect to associate closely with faculty members in all phases of the curriculum because the College maintains a small class size and a favorable faculty to student ratio.

With special guidance from faculty advisors, students may modify their educational programs to conform with personal interests and goals. Individualized programs may include student-initiated electives, participation in the M.D./Ph.D. program in medical sciences, as well as the opportunity to enroll in master's or doctoral level programs elsewhere in the University. These options permit the exceptional student to combine a

background in medicine with other bodies of knowledge not commonly joined to it. A student at the Texas A&M University College of Medicine is in a position to benefit greatly from the wide spectrum of educational opportunities available by participating in a program that can selectively use the special strengths of a major university, an exemplary multispecialty group medical practice, individual practitioners of medicine, the medical program of the Veterans Administration, and local private or public health care agencies.

## ADMISSION FOR MEDICAL STUDENTS

Admission to the College of Medicine is competitive. The College considers for enrollment only individuals who are U.S. citizens or permanent residents. By state mandate, enrollment of individuals who are residents of states other than Texas may not exceed 10%. Applicants must demonstrate better than average ability to master a challenging educational experience. In addition to demonstrated academic ability, successful applicants must exhibit the personal qualities necessary to interact with others in an effective and personable manner. Interpersonal skills, integrity of character, honesty, leadership, initiative and breadth of interests are among the characteristics sought. Pre-medical advisors fulfill an important role in helping admissions committees assess these attributes and qualities. This suggests the importance of potential College of Medicine applicants getting to know their advisors early in their undergraduate education.

Applicants must have completed their premedical college work in a fully accredited college or university in the United States. Most entering students have completed a baccalaureate degree before enrolling. However, some applicants are enrolled with 90 semester hours of college work; exceptional applicants may be considered with 60 semester hours at a fully accredited college or university in the United States. Each year approximately 50 new students are enrolled. The small class size permits each student to receive individual attention in both the basic science and clinical experiences.

Academic ability as evidenced by grades in college courses and performance on the MCAT are important selection criteria. The following courses are required:

- |                                       |                     |
|---------------------------------------|---------------------|
| • General Chemistry (with laboratory) | 8 hours or 1 year   |
| • Organic Chemistry (with laboratory) | 8 hours or 1 year   |
| • General Biology (with laboratory)   | 8 hours or 1 year   |
| • Additional Biological Sciences      | 3 hours or 1/2 year |
| • General Physics (with laboratory)   | 8 hours or 1 year   |
| • Calculus                            | 3 hours or 1/2 year |
| • English                             | 6 hours or 1 year   |

The Texas A&M University Health Science Center, College of Medicine, Office of Student Affairs and Admissions processes all applications. You may obtain application materials from the Health Professions Advising Office at your college or university, or from the Texas A&M HSC College of Medicine Office of Admissions. If you have questions about admissions, please address them to: Director of Admissions, Texas A&M University Health Science Center, College of Medicine, Office of Admissions, 159 Joe H. Reynolds Medical Building, College Station, TX 77843-1114. (409) 845-7743.

You must use the official application form for the current year, and submit your application *between May 1 and November 1* of the year preceding expected enrollment.

Although the MCAT is offered twice each year, spring and fall, we strongly encourage applicants to take the MCAT in the spring just prior to the beginning of the application period and certainly no later than the fall of the year preceding expected enrollment. You can obtain information and an application form for the MCAT by writing: MCAT, American College Testing Program, P.O. Box 414, Iowa City, Iowa 52240.

In addition, for MCAT scores to become a part of your application materials, you must have scores reported *directly* to the TAMU College of Medicine Office of Admissions. *Beginning with the 1993 entering class, we will accept only the new MCAT.*

## ADMISSION FOR GRADUATE STUDENTS

Applicants normally are admitted to the program only to pursue the Doctor of Philosophy degree. Master of Science degree candidates must complete a minimum of 32 semester hours credit. The Doctor of Philosophy degree program requires a minimum of 96 semester hours.

The College of Medicine also offers a combined M.D./Ph.D. program. At the time of admission, selected students may enroll in both the graduate program for the Doctor of Philosophy degree in the medical sciences and in the program for the Doctor of Medicine degree. Alternatively, they may enroll in another graduate program at Texas A&M simultaneously with studies toward the Doctor of Medicine degree.

### Prerequisites

To be considered for admission to the Doctor of Philosophy degree program, an applicant must have:

- 1) completed an undergraduate degree at an accredited educational institution with an overall grade point average of 3.0 or better; and,
- 2) achieved a combined minimum score of 1,100 on the quantitative and verbal sections of the Graduate Record Examination (GRE). International students have the option to submit their score on the quantitative section of the GRE only; 550 is the minimum acceptable score. International students must also achieve a minimum score of 550 on the Test of English as a Foreign Language (TOEFL).
- 3) completed the following courses:

Course	Semester Hours
Inorganic chemistry (with laboratory)	8 hours or 1 year
Organic chemistry (with laboratory)	8 hours or 1 year
Analytic chemistry	3 hours
General physics (with laboratory)	3 hours
Calculus	3 hours

### The Application Process

Admission is granted only for the beginning of each academic year. Applications may be submitted at any time.

Application forms for admission and financial support as well as additional information about College of Medicine programs can be obtained from the Office of Graduate Studies and Research. All application materials should be sent to this office.

Applications are accompanied by the student's undergraduate record, test scores from the Graduate Record Examination (GRE) and letters of recommendation. International applicants must also submit scores from the Test of English as a Foreign Language (TOEFL).

In the application, each student declares his or her area of research interest from the basic disciplines of anatomy, biochemistry and medical genetics, microbiology and immunology, pharmacology and toxicology, or physiology. Applications from qualified individuals are forwarded to the corresponding departments for consideration.

## STUDENT FINANCIAL AID

A student's ability to pay for medical school is not a factor in the admissions process at the College of Medicine. Approximately 90% of our students receive some form of financial assistance. Assistance is generally in the form of federal, state, school and private funds, with the largest amount in long-term student loans payable after graduation.

The first step in the financial aid process is to complete a Financial Aid Form (FAF) or a Family Financial Statement (FFS) form as soon as possible after January 1 in the year of expected enrollment.

Students accepted to the College of Medicine are considered automatically for a combination of loans, grants and scholarships. More detailed information is provided when applicants interview or when they are accepted to the College of Medicine.

### Residency Status

Texas residency requirements are governed by state law and by policies and regulations established by the Texas Higher Education Coordinating Board. Since there are many factors that affect an individual's state residency status, applicants whose residency status is not clearly established should request a *Residency Questionnaire*, available from the Health Science Center College of Medicine.

### Scholarships

Charles Davidson Scholarship  
 Charlotte M. Tompkins Scholarship Fund  
 Clark A. and Pauline Mathews '27 Scholarship Fund  
 College of Medicine Scholarship  
 Donald Niederer Scholarship in Medicine  
 Dr. & Mrs. O.C. Cooper Scholarship  
 Dr. Sidney Conolly Class of '39 Scholarship  
 Exceptional Financial Need Scholarship  
 James H. and Minnie M. Edmonds Educational Foundation  
 Joseph B. Collerain Endowment Scholarship  
 Louise Barekman Scholarship  
 National Health Service Corps Scholarship  
 National Hispanic Scholarship Fund  
 National Medical Fellowships, Inc.  
 Patricia A. Ward Scholarship Fund  
 R.D. "Jim" Little '34 Endowed Scholarship  
 Richard H. Harrison Scholarship in Medicine  
 Sam Houston Sanders Scholarship in Medicine  
 Sam W. Law M.D. Memorial Scholarship Fund  
 Scholarships for Disadvantaged Students  
 Southern Medical Association Scholarship  
 State Student Incentive Grant  
 TAMU Corps of Cadets March of Dimes Scholarship  
 TAMU Academic Excellence Awards  
 Texas Aggie Medical School Assistance Fund  
 Texas Medical Association Louise Barekman Memorial Scholarship Fund  
 Texas Public Education Grant  
 Tuition Scholarships  
 William W. Maxwell Endowed Scholarship

## **Loans**

American Medical Association Education and Research Loan Fund  
American Medical Student Association (AMSA) Personal Loan Program  
American Medical Women's Association, Inc., Loan Program  
Auxiliary Student Loan Fund – TMA  
Dr. May Owen Trust Fund – TMA  
Ella Kate and Wallace Ralston Medical Student Loan  
Exceptional Financial Need Scholarships  
Franklin Lindsay Student Aid Fund  
Health Education Assistance Loan (HEAL) Program  
Loans for Disadvantaged Students  
Minnie Stevens Piper Loan Program  
Perkins Loan Program  
R. H. Harrison Professional Loan  
Supplemental Loan for Students  
Stafford Loan Program

## **Awards**

The American Medical Women's Association Scholarship Achievement Citations  
Anderson Awards for Academic Achievement  
The Antony van Leeuwenhoek Award for Excellence in Medical Microbiology and Immunology  
Award of Merit for Outstanding Achievement in Pathology  
The Ciba-Geigy Award for Outstanding Community Service  
The Helen Salyer Anderson Award  
The Janet M. Glasgow Memorial Award of Outstanding Achievement  
Lange Book Award  
The Merck Manual Award for Superior Academic Achievement  
Outstanding Clinical Performance, Pediatric Rotation  
Outstanding Student in Otorhinolaryngology Award  
Phi Kappa Phi Outstanding Junior Awards  
Richard K. Gaines, M.D., Award for Excellence in Psychiatry  
Rollie R. White Award for Excellence in Surgery  
The Sandoz Award  
Senior Departmental Awards  
Thomas S. Gathright Academic Excellence Awards  
The Upjohn Award for Outstanding Performance in Patient Care



## EXPENSES FOR MEDICAL STUDENTS

The expenses listed in this section are for estimates and are subject to changes by the Board of Regents, the Texas A&M University System, the Texas State Legislature or other agencies. The expenses listed below are calculated for a typical medical student enrolled in the standard College of Medicine program for academic year 1992-1993. Expenses for subsequent years may be different. Nonresident tuition is three times the resident tuition.

Payments for tuition and fees are due during the registration periods scheduled before the beginning of each term. They may be paid in one or three deferred payments. Cashier's checks, personal checks, and money orders payable to Texas A&M University are acceptable. All checks and money orders are accepted subject to final payment.

The estimated expenses for College of Medicine students are as follows:

### Estimated Academic Costs

#### College Station Campus (Years 1 and 2)

	Fall Term	Winter Term	Spring Term	Annual Total
*Tuition (statutory amount regardless of course load)				
Resident	\$2,183.34	\$2,183.33	\$2,183.33	\$ 6,550.00
Fees	365.00	365.00	365.00	1,095.00
Books and Supplies	<u>465.00</u>	<u>465.00</u>	<u>465.00</u>	<u>1,395.00</u>
Total Academic Costs	\$3,013.34	\$3,013.33	\$3,013.33	\$ 9,040.00

#### Estimated Room and Board

Total	\$2,200.00	\$2,200.00	\$2,200.00	<u>\$ 6,600.00</u>
Estimated Annual Cost for Residents in Years 1 and 2				\$15,640.00

### Estimated Academic Costs

#### Temple Campus (Years 3 and 4)

	Fall Term	Spring Term	Annual Total
*Tuition (statutory amount regardless of course load)			
Resident	\$3,275.00	\$3,275.00	\$ 6,550.00
Fees	150.00	150.00	300.00
Books and Supplies	<u>525.00</u>	<u>525.00</u>	<u>1,050.00</u>
Total Academic Costs	\$3,950.00	\$3,950.00	\$ 7,900.00

#### Estimated Room and Board

College of Medicine student apartments at Temple range in cost from \$105.00 per month to \$240.00 per month with water paid.

Total	\$3,828.00	\$3,828.00	<u>\$ 7,656.00</u>
Estimated Annual Cost for Residents in Years 3 and 4			\$15,556.00

## WITHDRAWAL FROM THE UNIVERSITY

Once a payment for tuition and fees has been accepted by the University, a student is considered officially enrolled unless the student is otherwise restricted from enrolling. Stopping payment on a check for fees or allowing the check to be returned unpaid by the bank for any reason does not constitute official withdrawal. Failure to follow procedures for withdrawing from the University may result in financial penalties and delays with future enrollment in the University. Once a student registers, he or she is responsible for the total fees assessed regardless of whether an installment option is used. Refund percentages are applied to total fees assessed and not the amount paid. This means that students who withdraw before paying all installments may, in the event of withdrawal, receive a bill with a balance due rather than a refund.

## REFUNDS

Refund of fees shall be made to students officially withdrawing according to the following withdrawal schedule:

**Tuition, Student Services Fee, General Use Fee,  
Student Center Complex Fee, Health Center Fee, Computer Access Fee,  
Laboratory Fee, Meal Plans and Bus Service**

Fall, Winter, Spring Term

Prior to the first class day	100 percent
During the first five class days	80 percent
During the second five class days	70 percent
During the third five class days	50 percent
During the fourth five class days	25 percent
After the fourth five class days	None

Refunds will not be made before 21 days from the date of payment.

**Board:** Students may withdraw from the board plan at any time by application to the Department of Food Services. Board fees will be refunded in full on requests received prior to the first day of classes. Refunds on requests received after classes begin will be prorated on a daily basis, less a withdrawal fee equal to 10 percent of the semester board rate.

**Identification Card Fee:** After the card is issued, none of this fee can be refunded.

**Bus:** Bus charges are refundable in full prior to the first day of classes. After classes begin, refunds will be prorated on a weekly basis through the fourth week of a fall or spring semester and through the first week of a summer term or a 10-week summer semester. After these deadlines, refunds will only be made in case of official withdrawal, and they will also be prorated on a weekly basis.

## UNPAID CHECKS

If a check accepted by the University is returned unpaid by the bank on which it is drawn, the person presenting it will be required to pay a penalty of \$20. If the check and penalty are not cleared within 15 days from the date of the first notice, the student may be dropped from the rolls of the University. In addition, the check will be turned over to the county attorney for prosecution. Students dropped from the rolls of the University for failure to redeem an unpaid check or checks within the prescribed grace period are eligible for reinstatement only upon redemption of such check or checks, plus penalties, and the payment of a reinstatement fee of \$50.

If a tuition and fee check is returned unpaid, the time allowed to clear the check will be specified in the return check notice. Failure to clear returned fee checks by the due date given will result in cancellation of the student's registration.

## CASH NEEDS

It is recommended that students have a checking account to meet cash and other financial needs while attending the University. Students having MPACT and PULSE cards may use the automatic teller machines located near the east entrance to the MSC. Students may also cash personal checks for up to \$50 at the main desk of the MSC.

## ACADEMIC RULES AND REGULATIONS

### Handbooks for Medical Students

Two handbooks, entitled *Texas A&M University Regulations* and *Texas A&M University College of Medicine Student Handbook and Addendum to Texas A&M University Regulations*, are issued to students each year after registration. In addition, the *Texas A&M University College of Medicine Student Policy Handbook Temple Campus* is issued during orientation into the third year program. These handbooks are the official statements of rules and regulations that govern student conduct and student activities at the College of Medicine.

### Graduate Student Rules and Regulations

Graduate student rules and regulations are published in *Texas A&M University Regulations* and the *Texas A&M University Graduate Catalog*. The College of Medicine Graduate Instruction Committee has the responsibility to oversee graduate student progress.

### Grading

A student's grade in every course in the curriculum of the College of Medicine is based upon performance and/or participation in classes or clinical rotation, laboratory work, examinations, and other activities applicable to that course. The proportionate weight of each factor is set by the department administering the course. The basis upon which the final grade is determined is announced in writing by the third class meeting and is not changed during the academic year.

Grades used in the College of Medicine and their significance are as follows:

- A — Excellent, 4 grade points per credit hour
- B — Good, 3 grade points per credit hour
- C — Satisfactory, 2 grade points per credit hour
- F — Failure, no grade points
- I — Incomplete, no grade points
- S — Satisfactory
- U — Unsatisfactory
- WP — Withdrawn passing
- WF — Withdrawn failing

Graduate students must maintain a minimum overall grade point ratio of 3.0 to remain in good academic standing.

A grade of A, B, C or, in certain designated courses, S, must be attained in all required courses of the medical curriculum in order to satisfy the requirements of the M.D. degree. The minimum overall grade point ratio a medical student must attain for graduation is 2.00. Further information about grading and promotion can be found in the Student Handbook.

## DEGREE INFORMATION

The College of Medicine offers the Doctor of Medicine, Master of Science and Doctor of Philosophy degrees.

### The Bachelor of Science Degree

The Bachelor of Science degree is awarded to qualified medical students upon satisfactory completion of University requirements and two years of the medical curriculum. The Bachelor of Science degree is governed by Texas A&M University regulations and core curriculum requirements. Students interested should contact the University Registrar for further information.

Students who attended other institutions during their premedical study may substitute equivalent courses for those listed above as determined by the Registrar, Texas A&M University.

College of Medicine students awarded the Bachelor of Science degree shall be designated for honors as follows:

- 1) Summa Cum Laude is awarded to students with grade point ratios of 3.90 or above;
- 2) Magna Cum Laude is awarded to students with grade point ratios in the range of 3.70 through 3.899;
- 3) Cum Laude is awarded to students with grade point ratios in the range of 3.50 through 3.699.

All students must complete a minimum of 75 hours of classroom instruction at Texas A&M University to be eligible for graduation with honors.

Commencement for students who qualify for the Bachelor of Science degree takes place in mid-August with the other Texas A&M University summer graduates.

### The Doctor of Medicine Degree

The Doctor of Medicine degree is awarded at the completion of the four year program to those students who have attained a grade of at least 70 percent (C) or a pass in the courses and clerkships in the medical curriculum, and who have satisfactorily demonstrated to the faculty the personal and professional qualities essential to the practice of medicine.

College of Medicine students who qualify for the Doctor of Medicine degree and who attain a grade point ratio of 3.500 or above in College of Medicine course work are awarded a degree "With Honors."

Commencement for College of Medicine students who have earned the Doctor of Medicine degree takes place at the end of the spring quarter. The Helen Salyer Anderson Award, the most prestigious award given by the College of Medicine, is presented at commencement to the outstanding graduate.

### The Doctor of Philosophy Degree

A graduate program in basic medical sciences, leading to the degrees Master of Science and Doctor of Philosophy, was instituted at the College of Medicine in 1985.

A special feature of the program is an emphasis on broad-based instruction in medical sciences. Faculty members in the College of Medicine believe that the highest quality teaching and research in medical sciences is achieved in programs that provide a strong, conceptual framework derived from a firm foundation of formal course work.

Traditionally, master's and doctoral degrees in basic medical sciences have been awarded in clearly subdivided disciplines such as anatomy, biochemistry, microbiology, pathology, pharmacology and physiology. However, the boundaries separating these

disciplines have become less distinct because of the necessity for interdisciplinary collaboration in biomedical research. Although medical schools increasingly require their faculty members and medical researchers to have a broad education in medical sciences, most graduate programs continue to use traditional curricula restricted to fairly narrow departmental lines. The graduate program in medical sciences at Texas A&M University is designed to remedy this deficiency by bridging traditional disciplines through both course work and research.

The Ph.D. program requires a combination of formal course work and research and dissertation work. To ensure the multidisciplinary nature of the program, each student is required to complete courses from at least four discipline areas.

The core courses requirement is flexible in that courses taken elsewhere that are equivalent to core courses in concept can be substituted for the core program. Students with advanced standing in core course disciplines may have the requirement waived and proceed directly to a more advanced course sequence.

The program also requires each student to take a methodology course in a basic science discipline different from his or her area of research interest. This collateral experimental problem, selected by consultation between the student and his or her committee, may complement the thesis problem or be supplemental to it.

Upon application to the program, each student declares an area of research interest from the basic disciplines of anatomy, biochemistry and medical genetics, microbiology and immunology, pathology, pharmacology and toxicology, or physiology. The graduate advisor for that discipline area designs, with the student, a course of study that generally requires four to five years to complete.

The College of Medicine calendar is independent from other University schedules, although most graduate courses are on the University Semester System. The academic year for the College of Medicine divided into three terms and a summer session that is usually used for research.

For more information, contact the Office of the Associate Dean for Graduate Studies and Research.

## CURRICULUM

The Doctor of Medicine requires a minimum of four years of study. Students spend their first two years in College Station studying basic medical sciences. Each course includes clinical correlational experiences, so students begin acquiring clinical skills in their first year. During the second year, students spend half a day each week learning fundamental clinical skills under the supervision of practicing physician faculty members.

The ethical and social aspects of medical practice receive special emphasis in the curriculum. The Department of Humanities in Medicine provides lecture, discussion, and small group case studies that focus on the humanistic concerns of the ethics of modern medicine.

During the third and fourth years in Temple, Texas, students receive clinical training in several different patient care settings: Olin E. Teague Veterans' Center, Scott & White Memorial Hospital and Clinic, and Darnall U.S. Army Hospital at Fort Hood. Small classes permit individual attention and close working relationships between faculty and students.

The courses included in each year are as follows:

### First Year

- Gross Anatomy
- Microscopic Anatomy
- Neuroanatomy
- Medical Physiology
- Medical Biochemistry
- Genetics
- Behavioral Science
- Working with Patients
- Introduction to Physical Diagnosis
- Humanities in Medicine

### Second Year

- Pathology
- Microbiology
- Pharmacology
- Introduction to Medicine
- Introduction to Clinical Psychiatry
- Introduction to Obstetrics/Gynecology
- Introduction to Pediatrics
- Clinical Preceptorships in Primary Care Medicine
- Electives (by department)

### Third Year

Required Clerkships:

- Internal Medicine
- Surgery
- Obstetrics/Gynecology
- Pediatrics
- Psychiatry
- Family Medicine

Required Courses:

- Principles of Radiology
- Basic EKG and Echocardiography

### **Fourth Year**

Required Clerkships: 6 weeks

- Neurology
- Alcohol & Drug Dependence Program

Electives: 32 weeks

Didactics: 2 weeks

- Medical Jurisprudence
- Epidemiology/Public Health/Biomeasurements
- Humanities

## **POSTGRADUATE MEDICAL EDUCATION**

Postgraduate medical education, which encompasses numerous programs of formal specialty training and education and which can occupy from three to seven years of hospital practice subsequent to receiving the M.D. degree, is offered by Scott and White on the Temple campus. Specialty training programs vary in length and in other specific requirements in conformity with standards set by the 24 medical specialty review committees that govern and accredit them. The Texas A&M University College of Medicine-Scott and White programs participate in the National Residency Matching Program to fill its residency positions.

Scott and White Memorial Hospital has sponsored specialty training programs since the 1920s and it has greater than 750 residents and fellows in training. In several specialty areas, Scott and White is affiliated for training purposes with the Olin E. Teague Veterans' Center, U. S. Army Darnall Community Hospital at Fort Hood, the Shriners Hospital for Crippled Children in Houston, and others. Scott and White offers graduate medical education programs in general surgery, urology, anesthesiology, ophthalmology, orthopaedic surgery, plastic surgery, pathology, pediatrics, combined medicine/pediatrics, obstetrics and gynecology, radiology, family practice and internal medicine. The Department of Internal Medicine offers fellowship training in four subspecialties: gastroenterology, cardiology, pulmonary medicine, and endocrinology.

For more information, contact the Graduate Medical Education Department, Scott and White, (817) 774-2232.

## **LEADERSHIP IN MEDICINE**

The College of Medicine has created an enrichment program for all medical students to prepare them to take a leadership role in meeting the challenges of health care in the 21st century. Over the four year curriculum, students will participate in small group discussion sessions, work with a distinguished Texas A&M faculty member/mentor, receive enhanced assistance in choosing a medical residency, and in the fourth year spend an extended period of time with an individual recognized as an outstanding leader in his/her field.

The faculty of the College of Medicine believes strongly that this institution has a responsibility to inspire in its students the highest ideals of service. The Leadership in Medicine program gives students the skills to take an active role in improving the society in which we live.



## STUDENT GOVERNANCE

Students participate in most committees that govern student activities in the College of Medicine. Students from each class are appointed to the standing committees on Curriculum and Admissions.

The Texas Aggie Medical Student Association is the recognized student governing organization. The Executive Council of the association interacts with faculty members and the administration through the College of Medicine Office of Student Affairs.

## STUDENT AFFAIRS

### Health Services

The A.P. Beutel University Health Center is a modern clinic that provides outpatient services and beds for 44 inpatients. The medical staff is composed of general practitioners and consulting specialists in medicine, surgery, orthopedics, urology, gynecology, and a satellite counseling service. The center operates 24 hours per day but is closed during official University holidays.

First and second year College of Medicine students and graduate students pay a health center fee that entitles them to clinic visits as needed, most diagnostic examinations, ten days of hospitalization per semester, and X-rays and laboratory tests as needed. There is a nominal charge for prescription medications.

### Housing

On the College Station campus, medical students and graduate students are responsible for their own living arrangements. An ample selection of off-campus housing is available in Bryan-College Station, and many off-campus apartments are served by the campus shuttle bus system. The supply of on-campus housing is limited. On-campus housing is not available to graduate students except during summer school. Graduate housing is available in the TAMU Student Apartments. More information is available from the University housing offices.

The College of Medicine manages 66 apartments for its third and fourth year medical students on the grounds of the Olin E. Teague Veterans' Center. The apartments range in size from efficiencies to large two bedroom units. For more information, contact the Facilities Management Office at the Olin E. Teague Veterans' Center. Off-campus private housing is also an option.

### Health Insurance

TAMU College of Medicine and the Scott & White Clinic have developed the Texas A&M University College of Medicine Student Health Care Plan, hereafter referred to as the Student Health Care Plan for the TAMU College of Medicine medical students. The plan is comprehensive yet inexpensive. All medical students and their legal dependents are required to have in force a hospitalization insurance policy which meets or exceeds the coverage described in the attached "Minimal Requirements for Hospitalization Insurance." Physician services and outpatient laboratory and x-ray services (with some exclusions) will be provided free of charge to students and their legal dependents while: 1) the student is enrolled in the College of Medicine, 2) the care is provided in one of the Scott & White facilities, and 3) the required hospitalization insurance is maintained by the student. Physician services or laboratory or x-ray services provided elsewhere are not covered. For further information please contact the Office of Student Affairs and Admissions.

## **Liability Insurance**

All second, third and fourth year medical students are required to have liability insurance prior to working with patients. The cost is nominal (\$150/year as of 1992) and applications and payments must be processed through the Office of Student Affairs and Admissions prior to June 15th each year.

## **Psychological Counseling**

Psychological counseling is available from both Texas A&M University and the College of Medicine. Texas A&M University offers confidential limited duration professional psychological counseling free to all students. The Student Counseling Service is located on the third floor of the YMCA Building; students may call 845-4429, or visit anytime between 8 a.m.-5 p.m. In an emergency at night or on weekends, students needing help may go to the Student Health Center and use the urgent care entrance.

The College of Medicine also offers personal counseling to its medical students. Students may seek counsel from individual faculty members anytime; furthermore, the College provides counseling for a limited period at no cost to the student. A student needing long-term psychotherapy is referred by the counselor to a therapist.

Students who select counselors other than those provided by the College of Medicine must pay for counseling themselves. Students whose problems require prolonged or more in-depth psychotherapies, or who have psychiatric emergencies requiring immediate stabilization must bear any cost of their therapies that is not covered by their insurance policies.

Students who have any questions about where to go for help or who need assistance in arranging counseling should contact:

Billy B. Rankin, Associate Dean for Student Affairs and Admissions, College Station  
T. Keller Matthews, M.D., Assistant Dean for Student Affairs, Temple.

## **Academic Counseling**

Counseling for academic concerns is available from a number of sources. Department heads, assistant and associate deans, and faculty advisors are available for consultation concerning academic difficulties and are prepared to offer assistance to students when required. During the third and fourth years on the Temple campus, students select a faculty advisor with whom they can meet and discuss choices of electives, residency training, and other career decisions.

## **Tutoring**

Tutoring is available at the College of Medicine from professors and from qualified upperclassmen who work as departmental tutors.

## **Minority Affairs**

The College of Medicine makes a vigorous effort to maximize opportunities for minority and disadvantaged students. The College offers summer programs for minority high school and college students as well as seminars on application completion and interviewing. It also provides tutorial support and counseling for medical students. Its curriculum is designed to provide a multicultural educational experience and to enhance learning on both the human and the academic levels.

The College of Medicine encourages inquiries and applications from any potential medical student. Minority students are encouraged to contact the Office of Student Affairs with any questions they may have.

## Special Opportunities for Disadvantaged Students

As a part of its commitment to recruit and graduate qualified disadvantaged students, the Texas A&M University College of Medicine administers several summer programs and very special opportunities.

The **High School Summer Medical Enrichment Program for Disadvantaged Students**, funded by Texas A&M University, familiarizes 20 competitive high school junior and senior disadvantaged students with the Texas A&M University undergraduate and premedical programs of study, health and medical careers, and the College of Medicine curriculum and admissions process. This intense five day familiarization program gives high school students the opportunity to explore their interest in medicine and the health professions.

The **NIH Disadvantaged High School Student Research Apprentice Program** provides four local students and a high school teacher with an eight week long, forty-hours a week research experience. The objective of the program is to stimulate interest in pursuing careers in biomedical research and the health professions. Each student and high school teacher is placed under the mentorship and supervision of a College of Medicine scientist and experiences the daily routine, challenges, and demands of biomedical research in the medical sciences.

The **Health Careers Opportunity (HCOP) Bridge to Medicine (BTM)** program is open to students who have completed their requirements for medical school and are disadvantaged. The program usually runs for six weeks from early June through mid-July. The BTM program offers 20 disadvantaged students an intensive academic program of study to reinforce knowledge of Biology, General and Organic Chemistry, Physics, Mathematics and to enhance the skills of reading, writing, and learning. Students not only build on their knowledge and strengthen some critical thinking skills, but refine their skill of test-taking on the Medical College Admissions Test (MCAT). Designed into the program is the complete Stanley H. Kaplan MCAT Preparation Course. Although academic preparation is emphasized in the program, it does not preclude two other important components in familiarizing prospective students of a medical education—the clinical and personal. The program provides participants with a clinical experience at the Scott & White Clinic and local hospitals to enhance and strengthen their perspective of the application of medicine. The personal component helps students identify and define traits associated with decision making, success and failure, ability and effort, commitment to pursuing medical school, and ability to complete a medical education. Also structured into the program are a series of mock interviews with admissions committee members, an Emergency Medicine Skills course, a workshop on learning strategies, an introduction to first year medical school courses, and lectures on medical issues and bioethics.

The **Center of Excellence for Hispanics (COE)** is a well integrated effort to bridge the gaps between Hispanics' need for health education and care and actual access to care. In addition, it facilitates the planning and development of programs that enhance opportunities for Latinos' education and training as well as recruitment and retention of Hispanic medical students to increase the supply of culturally sensitive providers. The COE is the vehicle for the first step of a strategic plan to utilize more effectively the resources of the College of Medicine toward 1) identifying Latino students who are interested in health careers and to offer programs to encourage and assist them in this endeavor, 2) addressing the identified needs of Hispanic medical students, and 3) devoting time, energy, and resources to the problems of particular concern to the Hispanic Population, such as substance abuse, AIDS, physical abuse, and disease prevention. The faculty and staff of the College of Medicine will be linked through the COE with Texas A&M University and other relevant institutions, health services to the state and community, governmental and nonprofit agencies to encourage and counsel Hispanic students of underserved communities to enter medicine careers and to assure that training of medical students is sensitive to the cultural realities of Hispanic patients.

## STUDENT ORGANIZATIONS AND HONOR SOCIETIES

### Student Organizations

**The Texas Medical Association** offers membership to all medical students under local county medical society sponsorship. All students are encouraged to join and to become involved in this important Texas organization. In addition, both campuses have an active Medical Student Section of the Texas Medical Association.

**The American Medical Student Association** is a national organization that is interested in national issues in medicine. The local chapter at the College of Medicine has been actively involved in community service.

**The American Medical Women's Association** is a national social organization that represents the interests of women physicians in national forums and encourages social networking and professional camaraderie among women physicians and medical students. The association also sponsors a number of loans, scholarships, and awards.

**The Student Association of Family Physicians** is a service and educational organization. Its meetings often feature lecturers in family medicine. Members of the club are active in community health services and health education programs in local schools.

**Texas Aggie Medical Student Association** is a recognized student organization on campus. All medical students are members of the association. Activities include participation in local health fairs, fun runs and intramural athletics.

**The Organization for Minority Issues in Medicine** exists for disadvantaged and non-disadvantaged medical students of the College of Medicine. The OMIM maintains three fundamental goals: 1) to educate and sensitize fellow students and faculty on health care issues and the needs of minority individuals, 2) promote unity and provide social and academic assistance for minority students at Texas A&M University and 3) to help with the recruitment and admissions of minority students to the Texas A&M University College of Medicine.

**The Christian Medical Society** is a nondenominational Bible study group of medical students, faculty and staff members. The society meets weekly, and often features guest speakers.

### Honor Societies

**Alpha Omega Alpha Honor Medical Society** — national medical honor society  
**Phi Kappa Phi** — a multidisciplinary honor society for juniors, seniors and graduate students.

## FACILITIES

### The College Station Campus

**The Medical Sciences Building**, located on the west side of the Texas A&M campus, houses the teaching and research facilities for the basic science departments. The College of Medicine administrative offices, institutes, and departmental offices for Anatomy, Family and Community Medicine - College Station campus, Humanities in Medicine, Medical Biochemistry and Medical Genetics, Medical Microbiology and Immunology, Medical Pharmacology and Toxicology, Medical Physiology, and Pathology and Laboratory Medicine are in the building.

### The Temple Campus

The Temple campus of the College of Medicine consists of the Scott and White Memorial Hospital and Clinic and the Olin E. Teague Veterans' Center.

**Scott and White Memorial Hospital and Clinic** traces its origin to a partnership formed in 1897 between two young frontier doctors, Arthur C. Scott, M.D., and Raleigh R. White, M.D., Joint Chief Surgeons, the Santa Fe Railroad hospital in Temple. Scott and White was first accredited by the American Medical Association for graduate training of physicians in 1920. It moved to its present 240 acre hilltop site just south of downtown Temple in 1963. It became associated with the Texas A&M University College of Medicine in 1974, prior to the opening of the school.

The Scott and White health complex is composed of Scott and White Memorial Hospital, the Scott, Sherwood and Brindley Foundation, and Scott and White Clinic. Scott and White Memorial Hospital is a nonprofit hospital with approximately 400 beds. Among its special facilities are the Lucy King Brown Special Treatment Center, the Mabee Diagnostic Center, the W. Guy Draper and Monette Jordan Draper Critical Care Center, and the Jesse H. and Mary Gibbs Jones Perinatal Center. In addition, the Scott and White Santa Fe Center has a 54 bed capacity. The Scott and White Clinic staff, all faculty members in the College of Medicine, is composed of about 300 physicians and scientists who practice in virtually every recognized medical specialty. Scott and White is a tertiary care center that serves 30 counties in central Texas around Temple. In addition, patients are referred to Scott and White from throughout Texas, the Southwest and Mexico.

Scott and White maintains 10 regional clinics in Killeen, McGregor, Moody, Hewitt, Waco, Gatesville, Taylor, Belton, Bellmead and College Station, Texas. The Scott and White clinic in College Station, opened in 1986, is staffed by more than thirty physicians in seventeen medical specialties. The Texas A&M University College of Medicine departmental offices for Internal Medicine, Obstetrics and Gynecology, Pediatrics, Psychiatry and Behavioral Science, Radiology, and Surgery are housed at the Scott and White Hospital and Clinic. The Family and Community Medicine departmental office is located in a separate clinic near the Santa Fe Center in Temple.

**The Olin E. Teague Veterans' Center** serves veterans in a 20 county primary service area in central Texas. The Teague Center, which was originally opened in 1942 as the McCloskey General Army Hospital, is located on a 185 acre site one mile south of downtown Temple.

In June of 1946, Congress transferred control of the facility from the army to the Veterans Administration for use as a Veterans Administration General Medical and Surgical Hospital. Modernization of the 1,200 bed center began in 1967 when the two main hospital buildings were dedicated, and continued with the opening of a nursing home in 1981. A \$25 million clinical expansion project, completed in 1986, greatly expanded patient care facilities, especially surgical areas. Construction of a new 408 bed domiciliary

complex was completed in 1990. Preliminary plans are now underway for another significant addition, a 300 bed patient treatment tower.

The Olin E. Teague Veterans' Center is currently authorized to operate 523 hospital beds, 120 nursing home beds, and 408 domiciliary beds. Admissions total more than 10,000, and the outpatient clinic logs more than 100,000 visits annually. Its annual operating budget is more than \$60 million and approximately 1,500 people are employed at the center.

Almost 75 physicians and other professionals from the staff of the center are faculty members of the College of Medicine. Texas A&M and the Veterans Administration jointly support several medical research projects conducted by faculty members to improve veterans' health care. A medical research laboratory building at the center is available to Texas A&M researchers and students.

Apartments, a student union, and a media center for Texas A&M medical students are also located on the Teague Center grounds.

### **Other Facilities**

The College of Medicine is also affiliated with the following clinical institutions in Texas: Veterans Administration hospitals in Waco and Marlin, the A.P. Beutel Health Center at Texas A&M, Humana Hospital Bryan-College Station, St. Joseph's Hospital in Bryan, Planned Parenthood of Brazos County in College Station, Grimes Memorial Hospital in Navasota, St. Jude Hospital in Brenham, Madison County Hospital in Madisonville, and the Darnall Army Community Hospital at Fort Hood in Killeen.

## LIBRARY FACILITIES

### **Texas A&M University Consortium of Medical Libraries**

The Texas A&M Medical Sciences Library, the Scott and White Memorial Hospital Library and the Olin E. Teague Veterans' Administration Center Library formed the Texas A&M University Consortium of Medical Libraries in 1976. The consortium libraries share an integrated library system that provides on-line catalogs to all three libraries as well as the Sterling C. Evans Library on the Texas A&M campus or to remote users in College Station, Temple and beyond.

All libraries within the consortium offer on-line database literature search services to students, faculty members, and staff of the College of Medicine. The Medical Science Library extends service to medical and veterinary practitioners in the region. Searchers can access more than 200 National Library of Medicine and commercial databases covering a wide range of subjects including medicine, medical humanities, sociology, chemistry, law, engineering, and biology.

### **Medical Sciences Library, College Station Campus**

The Medical Sciences Library at Texas A&M is adjacent to the College of Medicine Joe H. Reynolds Building. The library occupies 43,500 net square feet and currently houses 86,000 bound journals and books; it subscribes to 2,100 serial titles. The library supplements its collection through rapid interlibrary loan service, using local, regional and national reciprocal agreements with other libraries. Sophisticated computer database resources are available to faculty, students and other outside users using CD-ROM and remote access workstations in the library. Remote access to the MEDLINE database is also available from office and home computers.

### **Learning Resources Unit**

The Learning Resources Unit (LRU) is the primary study facility for medical students on the College Station campus. Occupying 6,100 square feet of the first floor of the Medical Sciences Library Building, the LRU houses approximately 2,000 self-assisted instructional audiovisual programs and 1,200 basic text and reference books for the basic sciences in an open stack system. Study rooms and study carrels are equipped with video, audio and slide playback capabilities for viewing programs. A microcomputer lab provides Macintosh and IBM-compatible personal computers with interactive capabilities. Binocular microscopes, heart sound simulators, models, a test file and copy machine are also available for student and faculty use. The LRU is open 98 hours per week with study facilities restricted to use by students and faculty of the College of Medicine.

### **Temple Campus Libraries**

The libraries of the Olin E. Teague Veterans' Center and the Scott & White Memorial Hospital extend library privileges to Texas A&M University medical students. The Teague library consists of a collection of 5330 books, 600 audiovisuals and 400 current journals. The Scott & White library contains a collection of 8960 books and over 980 current journal subscriptions.

### **College of Medicine Media Center, Temple Campus**

The Media Center, located in the Student Union Building at the Olin E. Teague Veterans' Center, houses 900 self-assisted instructional audiovisual programs and 400

basic medical reference books for the clinical sciences in an open stack system. The services provided by this center are similar to those of the LRU on the College Station campus including a microcomputer lab, audiovisual Ciba slide collection and residency information. The Media Center is open 83 hours per week with study facilities restricted to use by students and faculty of the College of Medicine.

### **Sterling C. Evans Library**

Texas A&M University's principal research collections, with more than 1.8 million volumes and 15,000 serials, are housed in the Sterling C. Evans Library at the center of the Texas A&M University campus.

## **BIOMEDICAL COMMUNICATIONS**

### **DEPARTMENT**

The Biomedical Communications Department provides the College of Medicine with communications support through the design, maintenance, and operation of communications systems and audiovisual presentation facilities used in teaching, research, and administrative activities. The department also produces audiovisual materials used in research documentation and instructional support utilizing graphic, photographic, and electronic media. Production services include a wide range of photography and photographic laboratory services, technical and medical illustration, publication design, computer graphics, visual computer modeling and animation, and videotape production. In addition the department provides graduate education courses in the field of medical visualization and simulation through the Department of Anatomy. Visualization research projects are conducted in collaboration with faculty in the basic medical sciences departments.

### **Telecommunication Activities**

The clinical campus is connected via a two-way full motion video microwave link to the clinical campus in Temple, Texas. This link connects the Reynolds Medical Building in College Station with the Olin E. Teague Veterans Center and Scott & White Hospital. The VA in Temple is connected to Veterans Administration hospitals in Waco and Marlin which can be accessed through the network. The Reynolds Medical Building is also connected to the educational television station, KAMU, by a two-way link. This link provides the ability to broadcast sources available at the College of Medicine to a local audience. Additionally the local cable company system and Texas Video Network may be reached through this connection. A one-way video link has been provided to Saint Joseph Hospital allowing reception at their site of College of Medicine programming. The department operates a two closed circuit television channels within the Reynolds Medical Building and the Biomedical Communications Department facilities in the Medical Sciences Library Building. Origination and reception sites are configured as a matrix allowing any origination site to be viewed at any subset of reception sites.

Two primary classrooms are equipped for local teaching use as well as for interactive televised teaching and large group meetings such as faculty meetings. A teleconference facility is equipped to handle interactive teleconferences. The video studio in the Biomedical Communications production area is used for both recorded production and live televised activities. The Dean's conference room is connected as a receive site in the network.

The Telecommunications Unit operates this system and provides for videotaping of



classroom lectures, seminars, and satellite teleconferences. More extensive projects involving studio recording, graphics production, and post production are handled by the Video Production Unit.

### **Production Activities**

Production capabilities include photography and photographic laboratory services, general and medical illustration, board graphics, computer graphics and animation, and video production. The Photography Unit provides the services of a black and white and color photographic laboratory and original photography including general studio photography, copy photography, and specimen photography including photomicroscopy. Lighting techniques in the macro range include dark field and scanning light. Microscopy lighting techniques available include a multitude of contrast enhancing methods, including phase, Normarski, ultraviolet, and fluorescence, as well as others.

Conventional and computer means are used in the production of research publication graphics, brochures, presentation slides, poster presentations, and animation. The Graphics Unit handles design, layout, and production of graphics projects. Computer graphic capabilities include design and production for output of still graphics to slides and computer animated sequences to videotape.

The Video Production Unit provides production and post production services including studio and location video recording, narration recording, and computerized time code editing. The unit includes a three camera television studio for recording or live broadcasts.

## **COMMUNICATIONS AND COMPUTER FACILITIES**

Because the College of Medicine is located on two campuses 90 miles apart in Temple and College Station, a sophisticated network exists to facilitate communication for administrative, research, and teaching activities. The College of Medicine uses interactive, closed circuit television; telefacsimile transmission; microcomputer network system; and teleconference networks.

The interactive, closed circuit television is transmitted via microwave over a dedicated television link. The major lecture halls on both campuses are equipped with a projection television or video monitors, and telephone handsets at each seat. Lectures originating from either campus can be viewed simultaneously at both, and students may ask questions or respond to the lecturer by using the telephone handsets. The system is also used routinely in an automated teleconference room for committee meetings and internal management.

The Veterans Administration hospitals affiliated with the College of Medicine, Scott and White, and the Medical Sciences Building have interconnected their dedicated television links to form the InterActive Television Network. The Veterans Administration Hospitals in Temple, Waco, and Marlin, Scott and White Hospital, and the College of Medicine are all interconnected by the system. Programs originate from institutions in the network and are targeted for audiences of students, patients, or physicians.

A telefacsimile system transmits copies of documents by telephone between the two campuses and around the world. Moreover, it provides rapid transmission of journal and book material among the libraries in the Texas A&M University Consortium and to more than 20 other medical libraries in the United States.

Data transmission, shared programs and files, and electronic mail are accomplished

with a microcomputer network system that interlinks the departments of the College of Medicine in College Station and the Media Center in Temple. The system is also in direct communication with a mainframe computer in the Texas A&M Computing Services Center.

The Teleconference Network of Texas links 90 medical institutions, including the College of Medicine, by dedicated telephone line into an audioconference network. Programs presented over the network are sponsored by the American Society of Clinical Pathologists, the American Hospital Association, the Educational Telephone Network of the University of Wisconsin - Extension, the Oklahoma Hospitals Association, and others.



# COURSE DESCRIPTIONS

All courses offered in the College of Medicine are described on the following pages and are listed by departments, arranged alphabetically.

Figures in parentheses following some course titles indicate the clock hours per week devoted to theory and practice, respectively. Theory includes recitations and lectures; practice includes work done in the laboratory and clinical settings. The unit of credit is the semester hour, which involves one hour of theory, or from two to four hours of practice per week for one semester of 16 weeks.

Any course may be withdrawn from the session offerings when the number of registrations is too small to justify offering it.

## DEPARTMENT OF HUMAN ANATOMY AND MEDICAL NEUROBIOLOGY



**Professors** C.R. Hamilton, I. Steele Russell (Interim Head), J.W. Wagner; **Associate Professors** M.S. Cannon, T.H. Champney, J.B. Gelderd, H.W. Sampson; **Visiting Assistant Professor** B.A. Vermeire; **Adjunct Assistant Professor** E.D. Abbott, Jr.; **Lecturer** J.E. Quarles.

The Department of Human Anatomy and Medical Neurobiology offers training in Neuroscience based on original research and graduate course work. In addition, medical courses provide fundamental knowledge in four major areas: neuroanatomy, histology, embryology and gross anatomy. Interdisciplinary programs within the College of Medicine and the University are encouraged.

The research concentration of the Department centers on the structure and function of the cerebral cortex. The principal approaches use primates, rabbits and rats to study mechanisms of visual processing, perception, learning and memory. A closely related interest is the use of sophisticated computer imaging techniques to study dynamic changes in neural networks during behavior. Current research includes: hemispheric specialization of the brain in primates; functions of the frontal cortex; recovery of function following brain damage and neural grafting; and neuroanatomical mechanisms of learning and memory using split-brain animals. Neural plasticity, neuroendocrinology of the pineal gland, bone and joint disease, and comparative hematology are other areas of interests within the Department.

The doctoral program in medical sciences requires original research and courses within the medical curriculum and within the students area of specialization. Graduate students and Postdoctoral Fellows have the opportunity to work in faculty laboratories with specialized state-of-the art equipment. Shared departmental resources include electron microscopes, a three dimensional imaging computer, a quantitative image data acquisition and display system, electrophysiological equipment, gamma and scintillation counters, histological, photographic and computer facilities. The Ph.D. program in Anatomy and Neurobiology usually requires four years to complete. The Master of Science degree is offered, in special situations, to qualified medical students or physicians in residency who want specialized anatomical training. Graduate students are expected to gain teaching experience by assisting in medical courses.

Graduates from our program are prepared for careers in research and teaching in academic, industrial or governmental positions.

- 601. Advanced Neuroscience. (1-2). Credit 2.** Details of mammalian nervous system including man; focus on organization of functional neural systems and their integrative action; dissection of human brains; use of original research papers. Prerequisites: MANA 922 and approval of instructor.
- 602. Histochemistry. (1-2). Credit 2.** Basic histochemistry demonstrating tissue components and morphology; precise identification, localization of tissue components. Prerequisites: MANA 911 and approval of instructor.
- 603. Special Regional Human Dissections. Credit 1 to 3 each semester.** Dissection of special region with more detail than in MANA 901; histological, neural and gross anatomical material utilized. Prerequisites: MANA 901 and approval of instructor.
- 607. Methods of Behavioral Brain Research. (0-3). Credit 1.** Advanced laboratory course in brain and behavior research; direct supervision in brain surgery techniques, electrical stimulation, recording, behavioral training, brain imaging using autoradiography; computerized data collection and analysis. Uses laboratory animals. Prerequisites: MANA 922 and approval of instructor.
- 608. Methods in Neurohistology. (1-2). Credit 2.** Instruction in anesthetization, perfusion of animals; removal of neural tissues; histological processing, staining of tissues. Prerequisites: MANA 911 and approval of instructor.
- 609. Neurochemistry. (2-0). Credit 2.** Emphasis on mammalian neurotransmitter systems. Prerequisites: MANA 922 or equivalent and approval of instructor.
- 640. Biomineralization in Animals. (2-0). Credit 2.** Factors involved in the process of biomineralization; role of nutrients, physiological processes and environment in normal and abnormal biomineralization. Prerequisite: Approval of instructor.
- 689-1. Visual Neuroscience. Credit 3.** Neural substrates of visual imaging from a retinal to cortical level. Detailed treatment of the neuroanatomical pathways and the neurophysiological coding of the retinal image and visual-motor integration mechanisms.
- 689-2. Cortical Function. Credit 3.** Examine from an anatomical and physiological viewpoint several topics usually characterized as higher cognitive functions by psychologists. Topics will include mnemonic mechanisms; hemispheric specialization; the agnosias, apraxias, and aphasias; and consciousness. Both human and animal data will be considered.
- 901. Gross Anatomy. Credit 8.** Relationships of structures of the human body during its development and in adult form as revealed through dissection; functional significance. Prerequisite: Admission to the medical curriculum or approval of department head.
- 911. Microscopic Anatomy. Credit 5.** Morphologic detail of human cells, tissues and organs as demonstrated by light and electron microscopic techniques; function of structural components. Prerequisite: Admission to medical curriculum or approval of department head.
- 922. Neuroanatomy. Credit 5.** Neural substrates for total regulation of somatic and visceral bodily function and mechanisms underlying the integrated action of the central nervous system; neurologic significance. Prerequisite: Admission to medical curriculum or approval of department head.
- 985. Problems. Credit 1 or more.** Special problem areas within framework of human gross, microscopic, neuro- or developmental anatomy. Prerequisite: Approval of department head.
- 991. Research. Credit 1 or more.** Original investigation of selected areas in anatomy. Prerequisite: Approval of department head.

DEPARTMENT OF  
FAMILY AND COMMUNITY MEDICINE



**Professors** D.B. Cauthen (Head), O.C. Cooper, C.J. Daniel, P. Davis, R.A. DeVaul, H.S. Lipscomb; **Clinical Professors** J.J. Hall, B. LeBleu, J.I. Lindsay, J.T.L. McNew, H.D. Pope, Jr., S.H. Richardson; **Associate Professors** G.R. Bellamy, R.G. Morgan; **Clinical Associate Professors** J.N. Bryan, J.A. Dula, D.A. Gloff, R.W. Huddleston, B.C. Jones, G.R. McIlhane, R.W. Pearce, D.R. Segrest, G.W. Smith, J.M. Weed III, J.S. Weinblatt; **Assistant Professors** S.I. Bame, W.G. Bartels, W.S. Carpentier, A.B. Caylor, B.A. Chumak, A.A. Cisneros, C.W. Clanton, E.A. Cooney, R. Cortes, G.R. Couchman, P.H. Crumpler, R.D. Cummings, M.W. English, E. Fasolino, W.F. Floyd, P.D. Gerdes, G.R. Goebel, B.K. Gordon, M.P. Hagen, R. Harbolovic, R.A. Henry, Jr., R.D. Jensen, J.A. Joseph II, M.I. Khan, M.O. Kirkpatrick, G.N. Lambert, O.W. Lowrey, J.E. Madsen, T.D. Maynard, D.A. McClellan, C.T. Mears, C.E. Miller, M. Mutyala, S.P. Nair, M. Norwood, L. Ogburn-Russell, S.K. Oliver, M.A. O'Neal, W. Peeples, T.F. Pullen, J.R. Randles, T.G. Rascoe, A.M. Reed, M.D. Reis, L.E. Robertson, W.C. Robertson, J.R. Rosiles, J.W. Sayre, J.G. Sharp, F.J. Silva, R.A. Smith, S.L. Smith, B. Stone, D.E. Stuckey, L.L. Tavel, D.E. Turvey, R. Villarreal, R.B. Watson, R.M. Wiprud, Jr., H.S. Wu; **Clinical Assistant Professors** D.C. Allison, S.D. Benold, S.A. Braden, D.J. Cabrera, K.S. Cheema, R.G. Cochran, Jr., D.R. David, R.G. Ellis, A.K. Haji, R.L. Haydon, L.G. Hermann, R.E. Herron, R.A. Howard, G.C. Hubley, Jr., M.E. Jones, T.S. Novosad, S.D. Patel, C.H. Prihoda, H.J. Robinson, W.P. Roquet, D.B. Stigler, M.O. Thakrar, R.C. Tongco, L.H. Wells.

The goal of the Department of Family and Community Medicine is to prepare medical students for family-oriented health care delivery and to give students an understanding of the family as a basic unit of society. The program is broad, and it emphasizes comprehensive medical care for the whole family. It is taught by a core of full-time faculty members and a large contingent of practicing physicians who serve as part-time faculty. Together, this team exposes students to the role of the physician in the medical community as well as in the patient community.

The department offers two required courses for first year students. Working With Patients, taught in the winter of the first year, introduces students to methods for dealing with patients. Physical Diagnosis, which begins in the spring of the first year, is taught jointly with the Department of Internal Medicine; it introduces students to medical history taking and bedside examination. A required Preceptorship Program for second year students applies the concepts of primary care to the context of a practicing physician's office. Students rotate through the local community and surrounding areas.

A clerkship in the third year exposes students to family practice in a clinical setting.

**912. Working with Patients II. (2-0). Credit 2.** Medical history taking and physical assessment coordinated with recognition and management of common emotional reactions among nonpsychiatrically ill patients. Factors which may influence doctor-patient relationships. Prerequisite: Admission to medical curriculum.

**944. Clinical Preceptorship in Primary Care Medicine. (0-3). Credit 1.** Students rotate through primary care experiences in family medicine, internal medicine, pediatrics, gynecology, otorhinolaryngology, obstetrics, ophthalmology, dermatology, and orthopedics. Prerequisite: IMED 923.

**981. Seminar. (1-0). Credit 1.** Current issues in medicine. Prerequisite: Approval of department head.

**985. Problems. Credit 1 or more.** Assigned readings and practical or laboratory work with weekly discussion period in a selected area of family and community medicine. Prerequisite: Approval of department head.

**989. Special Topics In . . . Credit 1 to 4.** Special study of an identified area of clinical medicine. Prerequisite: Approval of department head.

**991. Research. Credit 1 or more.** Laboratory research in an applied aspect of the basic sciences related to clinical medicine. Prerequisite: Approval of department head.

**992. Clerkship. Credit 5.** Full-time clerkship experiences in the offices of primary care physicians. Prerequisites: Completion of first and second years of the medical curriculum.

## DEPARTMENT OF HUMANITIES IN MEDICINE



**Professors** J.H. Clements, J.A. Knight, J.J. McDermott, D.H. Rosen, D.J. Self (Head), **Associate Professors** B.J. Gastel, G.A. Russell; **Assistant Professors** J.R. Pickle, B.A. Tyler; **Adjunct Assistant Professor** R.J. Leslie.

Humanities in Medicine is a charter department in the College of Medicine. The tasks of this department include: 1) to educate first year students in the basic ethical and social questions confronting the contemporary physician; 2) to acquaint the student with the classic works in the history of medicine, social medicine and the history of literature as related to medicine; 3) to integrate ethical and social concerns with the accompanying basic sciences curricula; 4) to provide sustenance for students with regard to the developing relationship between scientific, technological and humanistic learning in the making of a physician; 5) to stress the complex interpersonal, social, legal and political factors in the physician-patient relationship, and 6) to increase tolerance of differing values in order to reduce prejudice in health care delivery.

The department offers a required course in Humanities in Medicine during the first year. One or more electives are offered during the first year. Symposia, workshops, electives and visiting speakers are available to second year students. Occasional programs are arranged for students in their third and fourth years at Temple. A course in medical jurisprudence is required of all fourth year students.

Occasionally, the department sponsors regional or national conferences. Humanities in Medicine periodically invites outstanding medical humanists with national reputations to the College of Medicine to speak with medical students.

Students are encouraged to visit with faculty members. Professors in the department view their mission as one of helping.

**911. Medicine and Human Values: Introduction to Medical Ethics. (2-0). Credit 2.** Basic issues in medical ethics, focusing on the character of the patient-physician relationship. Prerequisite: Admission to medical curriculum or approval of instructor.

**912. History of Medicine. (2-0). Credit 2.** Development of medicine in various civilizations, emphasizing relationship between medicine and society. Prerequisite: Admission to medical curriculum or approval of instructor.

**941. Medical Jurisprudence. 18 clock hours.** Introduction to forensic medicine; interface between the law and health care institutions; the medical record as a legal document; the creation of litigious situations; practice management. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.

**981. Seminar. (1-0). Credit 1.** Presentation by advanced students, faculty and visiting lecturers of selected topics in medical ethics, history of medicine and other areas in the humanities in medicine. Prerequisite: Approval of department head.

**985. Problems. Credit 1 or more.** Directed individual study of specialized areas of medical ethics, literature in medicine and the history of medicine. Prerequisite: Approval of department head.

**988. Leadership in Medicine. Credit 1 or more.** Small group discussions on the nature of medical education designed to help medical students take a leadership role on health care.

**989. Special Topics in . . . Credit 1 to 4.** Selected topics in an advanced area of medical humanities. Prerequisite: Approval of department head.

**991. Research. Credit 1 or more.** Research in a specific area of medical humanities. Prerequisite: Approval of department head.

## DEPARTMENT OF INTERNAL MEDICINE



**Professors** R.N. Barnes, J.D. Bonnet, G.W. Brasher, N. Christoff, P. Davis, W.P. Dyck, A.B. Follender, P.F. Gilliland, P.H. Howard, Jr., K.B. Knudsen, H.S. Lipscomb, N.S. Mann, J.P. McManus, P. Mukhopadhyay, G.C. Okeson, F. Perez-Guerra, J.J. Rinehart, V.E. Schulze, J.C. Starr (Head), A.D. Steele, R.L. Street, E.E. Terry, A.A. Trowbridge, T.I. Wallace, R.E. Walsh, L.E. Watson, T.H. Williams; **Professors Emeritus** J.H. Acker, N.C. Hightower; **Associate Professors** L.M. Brewer, P.T. Cain, J. Caraveo, J.B. Chandler, Jr., S.H. Chen, D.E. Crisp, K.S. Culp, W.R. Davis, C. Foulks, J.B. Green III, S.W. Gyeszly, B.R. Hajra, D.F. Havemann, V.D. Holleman, D.L. Hurley, J.A. Jackson, J.C. Leadbeater, R.P. Lenehan, G. LeSage, R.J. Long, J.J. Madler, S. Mann, J.E. McClendon, R.G. Morgan, D.L. Myers, P.E. Ogden, M. Osman, V.K. Piziak, D.P. Posey, M. Prince-Fiocco, W.L. Quinn, J.A. Schuchmann, P.H. Stoltenberg, C.A. Verdonk, T. Wajima, C.C. Welch, J. T. Wilkinson; **Clinical Associate Professors** C. M. Caperton, T. H. Giddings, A.L. Jones, T. M. Jones, M.E. Kahil; **Assistant Professors** R.I. Aguirre, L.L. Anderson, A. Avots-Avotins, L. Barenholtz, D.D. Barton, J.R. Baskerville, M.E. Bassel, B.C. Bollinger, P.D. Bolton, Jr., J.V. Bonds, J.R. Bowling, B.A. Brown, E.C. Brown, L. Bryson, V.D. Chatham, R.R. Cheruku, B.H. Chlapek, T.C. Coburn, L. Cortes, C.J. Cramm, Jr., A.K. Cryer, L.J. Davis, D.J. Dire, R.D. Doty, G.B. Drake, D.R. Droemer, Jr., J.E. Dvoracek, G.P. Fiocco, P.L. Forest, D.R. Foster, E. Frelier, S. Gammenthaler, J.E. Gammon, D.S. Gantt, C.E. Geyer, Jr., C. Gossett, E. Gowan III, T.J. Greene, D.L. Hackethorn Jr., B.M. Hall, G.D. Hobbs, D. Hogan, G.P. Holmes, D.M. Jermain, R.H. Jesse IV, K.M. Jew, J.W. Jundt, M.H. Kelleher, L.I. Kietzman, K.B. Kimmey, B.D. Koehler, S.H. Lee, P.D. Lemper, D.L. Lindzey, J.J. Lorette, R.W. Lukeman, D.A. Mackey, J.J. Malina, M.P. Martin, G. Martinez, J.L. May, R.F. McCollough, S.A. McMahan, R.M. Moscati, I.D. Mutyala, J. Narro, A.E. Nickel, B.B. Niemann, D. Nye, W.G. Petersen, N. Pokala, S. Pokala, C. Polepalle, M.R. Prasad, L.D. Price, D.P. Quick, M.A. Raebel, D.E. Rawls, G.J. Resendes, J.J. Rohack, R.S. Rosenberger, J.W. Ryan, E.A. Sammer, M.R. Schlabach, D.A. Smith, D.J. Smith, G.A. Smith, J. Spann, T.N. Tracey, V.H. Van Wormer, R.E. Visintine, S.C. Walker, B.A. Weiss, D.R. Weldon, T. Westwick, J.G. White, K.F. Williams, G.R. Willie, D.M. Yealy; **Clinical Assistant Professors** P.R. Alexander, J.R. Arcilla, D.E. Brannon, R.H. Conklin, N.M. Dave, P.S. Davis, T.F. Eska, T.A. Ginn, K. Landgraf, J.Y. Lee, R.R. Light, F.G. Lim, B.W. Marek, J.M. Mason, K.A. Patel, T.L. Rea, A. Shanmugam, K.S. Tripathy, S.S. Tseng, J.S. Weinblatt; **Lecturer** B. Richardson; **Instructors** R.A. Baum, R.J. Dusold; **Clinical Instructors** L.M. Bayouth, M.B. Bledsoe.

The basic mission of the Department of Internal Medicine is to produce broad-based, well-prepared, undifferentiated physicians. The program of instruction is designed to develop clinical skills and problem solving abilities. A holistic approach to the patient is emphasized. The need for perpetual scholarship on the part of the physician is stressed and appropriate attention is given clinical investigation in medical progress.

Elective components of the department's program include instruction in physical diagnosis (first year), the pathophysiology of disease (second year), and therapeutics of medicine (third year). Required fourth year clerkships in neurology, dermatology, emergency medicine, and geriatrics are supervised by the department. Active patient care on several general medical wards is an integral part of the medical program.

Cardiology, pulmonary medicine, gastroenterology, hematology/oncology, endocrinology, and others are offered by the department.

Among the current research endeavors in the department are the following: tests on the efficacy of streptokinase thrombolysis, the effect of nonsteroidal chemotherapy on thyroid and adrenal function, the significance of calcitonin as a determinant of osteoporosis, and immunotherapy of mountain cedar allergic rhinitis — effectiveness as judged by quantitative rhinomanometry.



**923. Introduction to Physical Diagnosis. (2-2). Credit 3.** Physical assessment and medical history taking using bedside examination of normal volunteers. Prerequisite: MFCM 912.

**933. Introduction to Clinical Medicine I. (3-0). Credit 3.** Multidisciplinary survey of clinical medicine presented on a human development continuum. Prerequisite: Satisfactory completion of year 1 of the medical curriculum.

**934. Introduction to Clinical Medicine II. (7-0). Credit 7.** Continuation of IMED 933; gerontology, clinical specialties and management of death and dying. Prerequisite: IMED 933.

**951. Basic Electrocardiography and M-mode Echocardiography. Credit 1.** Theory of electrocardiography and echocardiography; interpretation of common EKG and echocardiographic abnormalities encountered in clinical medicine. Prerequisite: Completion of years 1 and 2 of the medical curriculum.

**982. Core Clerkship in Internal Medicine.** General internal medicine, with patient workup and management under supervision of the clinical faculty. Participation in clinical rounds, conferences, seminars, and laboratory workups. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

**983. & 984. Elective Clerkship in . . . 2 or 4 weeks.** Elective clerkship in a specific area of surgery. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.

**985. Problems.** Directed study of selected problems in internal medicine. Prerequisite: Approval of department head.

**991. Research.** Original clinical and/or laboratory investigation in a specific area of internal medicine. Prerequisite: Approval of department head.

DEPARTMENT OF  
**MEDICAL BIOCHEMISTRY**  
 AND **MEDICAL GENETICS**  
 ◇ MBCH ◇

**Professors** G.M. Ihler (Head), C.N. Pace, J.E. Womack; **Professor Emeritus** J.M. Prescott; **Clinical Professor** M.K. Kukolich; **Associate Professors** C.A. Daniel, R.T. Elder, A.C.R. Ficht, T.J. Kuehl, L.C. Skow, D.K. Struck; **Assistant Professors** M.E. Cusick, S.M. Dobin, G.D. LeSage, S.M. Thacher; **Clinical Assistant Professors** L. Borg, V.R. Macias; **Clinical Instructor** R. Althaus.

The Department of Medical Biochemistry and Medical Genetics offers innovative courses in medical biochemistry and in medical genetics, conducts a vigorous and productive research program, and contributes to undergraduate, graduate, and postdoctoral education. The medical biochemistry course offers basic instruction in the sciences of biochemistry and molecular biology and provides insight into disease and disease processes as seen by the medical biochemist. Since any disease has associated with it major biochemical changes, the ultimate understanding of disease will be at the molecular and biochemical levels. In Medical Biochemistry I and II, students are given the foundation necessary for continued assimilation of biochemical information into their understanding of medicine. In Medical Genetics, which is closely integrated with Medical Biochemistry I, students are presented with the fundamentals of human genetics as well as applications of recombinant DNA technology to problems in medical genetics. The lectures, audiovisual material, and self-instruction programs provide integrated instruction in medical biochemistry and genetics. Small group tutorials and individual instruction are provided to students in academic difficulty.

Medical Biochemistry I is concerned primarily with the study of macromolecules, molecular biology, and molecular genetics, and Medical Biochemistry II deals with intermediary metabolism. Special emphasis is given to recent findings from molecular

biology and human genetics. The final examination of Medical Biochemistry I and II is the National Board Special Administration Examination.

Each faculty member in the department maintains an active research program. Current departmental research interests include the molecular biology of bacteriophage, membrane molecular biology, regulation of gene expression, molecular parasitology, drug carrier systems, oncogenes, and bacterial exotoxins. Funding for these programs is derived from external grants awarded to individual faculty members. Graduate students perform their thesis research under the direction of Department of Medical Biochemistry faculty members through graduate programs in the medical sciences, genetics, and molecular and cell biology.

**689. Advanced Human Genetics. (3-0). Credit 3.** An advanced survey of genetic analysis in humans. Types of genetic disorders: diagnosis and management of genetic diseases; transmission of genes in human populations; human cytogenetics; structure and function of human genes; human gene mapping; molecular analysis of genetic disease; genetics screening and counseling. Prerequisites: GENE 603 and BICH 603 or equivalent.

**911. Medical Biochemistry I: Macromolecules, Molecular Biology and Molecular Genetics. (5-0). Credit 4.** Properties and metabolism of proteins, DNA, and RNA. Recombinant DNA technology and applications to human medicine. Prerequisite: Admission to the medical curriculum or approval of department head.

**912. Medical Biochemistry II: Intermediary Metabolism. (3-0). Credit 3.** The metabolic basis of disease. Metabolism of lipids, carbohydrates, amino acids, purines and pyrimidines. Prerequisite: MBCH 911 or approval of department head.

**913. Medical Genetics. (3-0). Credit 3.** Fundamentals of medical genetics, including diseases resulting from inborn errors of metabolism, chromosomal abnormalities, human gene mapping, and applications of recombinant DNA technology to problems of human genetics. Prerequisite: MBCH 911 or approval of the department head.

**981. Seminar. (1-0). Credit 1.** Presentation by advanced students, faculty, and visiting scientists of reports on current research in biochemistry. Prerequisite: Approval of department head.

**985. Problems. Credit 1 or more.** Directed individual study of advanced topics in medical biochemistry. Prerequisite: Approval of department head.

**989. Special Topics in . . . Credit 1 to 4.** Selected topics in an advanced area of medical biochemistry. Prerequisite: Approval of department head.

**991. Research. Credit 1 or more.** Original laboratory investigation in specific areas of medical biochemistry. Prerequisite: Approval of department head.

DEPARTMENT OF  
**MEDICAL MICROBIOLOGY**  
 AND IMMUNOLOGY  
 ◇ MMIM ◇

**Professors** S.H. Black, K.A. Ippen-Ihler, R.E. McCallum (Head), D.N. McMurray, J. Measel, J.M. Quarles, L.H. Russell, Jr.; **Associate Professors** A.I.B. Hillis, T.W. Huber, W.B. McCombs III, V.G. Wilson; **Assistant Professor** B.R. Paull.

The Department of Medical Microbiology and Immunology provides instruction and training in basic and applied aspects of modern microbiology and immunology, for both medical students and graduate students. Students of medicine take a required sequence covering the diagnosis, management and prevention of infectious diseases during their second year of medical school.

The courses are complementary in content and are accompanied by appropriate laboratory experiments and demonstrations. For graduate students, a program leading to the Ph.D. in medical sciences with emphasis in microbiology or immunology is available. The program prepares students for careers in the diverse areas of microbiology and molecular biology, including research, diagnostic fields, teaching, or industry. This is a new program with an evolving curriculum. For a current list of courses offered, please contact the department.

The training and research interests of faculty members in the department reflect the major subdisciplines encompassed in the courses offered. These interests focus on host-parasite interactions and include such specific areas as 1) the genetics and molecular biology of bacterial plasmid transfer and conservation; 2) the modulation and regulation of the host's immune response to intracellular pathogens, including *Mycobacterium tuberculosis*; 3) the basic biology of specific agents such as *Escherichia coli* and influenza virus. 4) basic and clinical studies on the pathogenesis of respiratory viruses and vaccine and chemotherapeutic intervention in human disease; 5) the molecular regulation of papovavirus gene expression. Medical students may elect to work with faculty members in the department on these or related interests as part of the fourth year elective program.

**602. Immunoregulation. (3-0). Credit 3.** In-depth exploration of the genetic, cellular and molecular mechanisms by which humoral and cellular immune responses are regulated. Regulatory T cell circuits, molecules (interleukins, lymphokines), isotypic and idiotypic regulation, hormonal effects, immunoregulatory defects, experimental manipulation of immunoregulatory networks. Prerequisites: VTMI 649 or BIOL 610 and permission of instructor.

**923. Medical Microbiology I. (3-2). Credit 3.** General concepts of immunological and microbiological principles and phenomena in relation to clinical manifestations of infectious disease in the human host, and mechanisms of the immune response. Prerequisite: Admission to medical curriculum or approval of department head.

**924. Medical Microbiology II. (3-2). Credit 3.** Continuation of 923. Prerequisite: MMIM 923.

**925. Medical Microbiology III. (3-2). Credit 3.** Continuation of 923 and 924. Prerequisite: MMIM 923 and 924.

**981. Seminar. (1-0). Credit 1.** Presentation by advanced students, faculty, and visiting scientists of reports on current research in microbiology and immunology. Prerequisite: Approval of department head.

**985. Problems. Credit 1 or more.** Directed individual study of advanced topics in microbiology and immunology. Prerequisites: MMIM 923, 924 and approval of department head.

**989. Special Topics in . . . Credit 1 to 4.** Selected topics in an advanced area of medical microbiology or immunology. Prerequisites: MMIM 923, 924 and approval of department head.

**991. Research. Credit 1 or more.** Original laboratory investigation in specific areas of medical microbiology or immunology. Prerequisites: MMIM 923, 924 and approval of department head.

DEPARTMENT OF  
**MEDICAL PHARMACOLOGY**  
 AND TOXICOLOGY  
 ◇MPHM◇

**Professors** G.C.Y. Chiou (Head), J.L. Way; **Associate Professors** G.D. Frye, W.H. Griffith III, R.K. Hester, S.L. Peterson, J.P. Trzeciakowski; **Assistant Professor** D.C. Thompson; **Lecturer** W.D. McGuinn.

The Department of Medical Pharmacology and Toxicology prepares students for the clinical study of therapeutics by providing them with a basic knowledge of drugs and the

manner in which drugs modify functions in the human body. The clinically important drugs are grouped into five major categories according to their therapeutic effects. These include autonomic agents, renal and cardiovascular drugs, central nervous systems agents, endocrine preparations, and chemotherapeutic drugs. The mechanism of drug actions and the therapeutic usefulness of the drug in the treatment of diseases are stressed. Students are made aware that side effects of drugs involve organ systems at sites of action other than the primary one. This information is imparted through lectures, laboratory experiments, demonstrations, discussions, and term paper presentations.

The pharmacology course is taught in the second year of study simultaneously with microbiology, pathology, and family and community medicine. Students are taught basic mechanisms of drug actions as well as the clinical correlations of these drugs through periodic clinical conferences.

Electives in pharmacology include: Chemical Pharmacology, Physiological Pharmacology, Neuropsychopharmacology, Medical Toxicology, Problems, Special Topics, and Research in specialized areas closely related to the research interests of faculty members. The department also offers a seminar course that covers selected topics of current interest.

Faculty members in the department are engaged in research in the areas of toxicology, cardiovascular, ocular and neuropsychopharmacology. More specifically, antiglaucoma drugs, non-steroidal anti-inflammatory agents, antiarrhythmics, antineuroblastoma agents, central control of peripheral blood pressure, microcirculation, alcoholism, antiepileptics, antiaging, and the drug reactivities of various vasculatures are being studied. Students' participation in research is encouraged, particularly during the summer months after the first year of study.

**923. Medical Pharmacology I. (3-0) Credit 2.** General concepts of pharmacologic agents and substances; pharmacokinetics, pharmacodynamics; autonomic drugs; ocular pharmacology; and cardiovascular pharmacology; Prerequisites: Admission to medical curriculum or MPHY 901, 902; MANA 922; MBCH 911, 912 or approval of department head.

**924. Medical Pharmacology II. (3-0) Credit 2.** Continuation of MPHM 923; Anesthetics; neuropsychopharmacology; analgesics; and chemotherapy. Prerequisites: MPHM 923.

**925. Medical Pharmacology III. (3-3) Credit 3.** Continuation of MPHM 924; endocrine pharmacology; autacoids; drug abuse; and medical toxicology. Prerequisites: MPHM 924.

**931. Practical Therapeutics. 96 clock hours.** Interdisciplinary course emphasizing the use of several treatment modalities in the therapy of common clinical conditions. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

**981. Seminar. (1-0). Credit 1.** Selected topics of current interest will be presented. Presentation and defenses of a scientific paper. Prerequisite: Approval of department head.

**985. Problems. Credit 1 or more.** Research in specialized areas of pharmacology. Prerequisites: MPHM 925 and approval of department head.

**989. Special Topics in . . . Credit 1 to 4.** Selected topic in an advanced area of medical pharmacology. Prerequisites: MPHM 925 and approval of department head.

**991. Research. Credit 1 or more.** Individual research projects conducted under the direction of a supervising professor. Prerequisite: Approval of department head.

## DEPARTMENT OF MEDICAL PHYSIOLOGY



**Professors** R.C. Burghardt, D.L. Busbee, A.H. Goodman, H.J. Granger (Head), G.A. Laine, D. S. Linthicum, E.E. Smith, W.E. Ward; **Associate Professors** W.M. Chilian, M.J. Davis, G.A. Meininger, T.V. Peterson, K.S. Ramos; **Assistant Professors** D. T. Kochevar, C. J. Meininger, D.C. Zawieja; **Research Assistant Professor** L. Kuo.

Physiology is the branch of science concerned with the physical and chemical bases of life processes. As a fundamental discipline in medicine, physiology emphasizes the integration and coordination of biological activities at the molecular, cellular, organ, system and organism levels. The normal functioning of the human body is dependent on the interplay of elegant control mechanisms operating at all hierarchical levels of organization. In medical practice, the first sign of a disease is usually an abnormal body function. Moreover, amelioration of dysfunction requires detailed knowledge of the physico-chemical processes and control mechanisms responsible for the normal and abnormal behavior of organisms.

The basic concepts of medical physiology are presented during the first academic year. The first segment of the course emphasizes the principles of molecular and cell physiology; this is followed by a detailed exposition of the functions and interactions of the nervous, cardiovascular, renal, respiratory, digestive, endocrine and reproductive systems. Lectures, animal laboratories, demonstrations, field trips and clinical correlations are utilized to develop a complete picture of basic physiology and pathophysiology. Although the student is expected to develop a critical fund of physiologic facts, the course is designed to explore in depth the logic of the human body and its subsystems. The major focus of the course in medical physiology is on elucidating the behavior of the normal organism; however, selective examples of pathophysiology highlight each section of the course, thereby providing insight into the strong physiologic framework of modern medicine.

The research program of the department focuses on the cardiovascular system. Specific areas of research interest include: molecular and cell biology of vascular smooth muscle and endothelium, microcirculation, overall regulation of blood volume and arterial pressure, hypertension, inflammation, and the development of computer and engineering technology for cardiovascular research. The investigations of faculty members are supported by grants and awards from the National Institutes of Health and the American Heart Association. Opportunities for participation in the departmental research programs are available for students in high school, college, and medical school. In addition, the department is actively involved in graduate and postdoctoral training.

**901. Medical Physiology I. (4-0). Credit 4.** Systems of the human body with special emphasis on relationships between systems. Clinical cases exhibiting alterations in physiological feedback control. Prerequisite: Admission to medical curriculum or approval of department head.

**902. Medical Physiology II. (4-3). Credit 5.** Systems of the human body with emphasis on relationships between systems. Clinical cases exhibiting alterations in physiological feedback control. Laboratory experiences in human and mammalian systems. Prerequisites: MPHY 901 and admission to medical curriculum or approval of department head.

**981. Seminar. (1-0). Credit 1.** Presentation by advanced students, faculty and visiting lecturers of reports on contemporary research in physiology. Prerequisite: Approval of department head.

**985. Problems. Credit 1 or more.** Directed individual study of advanced topics in specialized areas of physiology. Prerequisites: MPHY 901, 902 and approval of department head.

**989. Special Topics in . . . Credit 1 to 4.** Selected topics in an advanced area of medical physiology. Prerequisites: MPHY 901, 902 and approval of department head.

**991. Research. Credit 1 or more.** Original investigation in specific areas of physiology. Prerequisite: MPHY 901, 902 and approval of department head.

## MEDICINE-INTERDISCIPLINARY



**981. Seminar. (1-0). Credit 1.** Discussion of current developments and selected topics.

**989. Special Topics in . . . Credit 1 to 4.** Special topics in an identified area of interdisciplinary medicine.

## DEPARTMENT OF OBSTETRICS AND GYNECOLOGY



**Professors** W.F. Baden, D.P. Baker, A.B. Knight (Head), B.L. Shull, G.W. Wyatt; **Clinical Professor** R.H. Benbow; **Associate Professors** R.H. Brakemeier, C.V. Capen, W.R. Gold, Jr., T.J. Kuehl, F.L. Leavelle, R.B. Nisbet; **Clinical Associate Professors** L.W.B. Rasberry, W.B. Roman, Jr.; **Assistant Professors** S.J. Andrews, S.G.H. Bonds, P.S. Greene, J.L. Harris, J.F. Hines, R.E. Joseph, P.T. Kropf, J.R. Meyer, K.M. Patterson, J.F. Pliego, W.L. Rayburn, C.W. Sanders, M.M. Silver, P.J. Sulak, T.J. Wincek, P.M. Yandell; **Clinical Assistant Professors** C.R. Anderson, D.R. Doss, N.Z. Johnson, G.M. Montgomery, R.W. Smith; **Instructor** M.P. Appleton.

The goal of the Department of Obstetrics and Gynecology is to expand students' basic science knowledge of reproductive medicine to provide an introduction to those aspects of obstetrics and gynecology that are pertinent to all physicians.

Curriculum objectives for the department include: 1) to develop an awareness and basic understanding of reproductive medicine including gynecologic disease and obstetrics; 2) to develop the skills of obtaining an obstetric-gynecologic history and of performing a physical examination with a proficient pelvic examination and Pap smear; 3) to develop the appropriate attitude and behavior to provide physical, emotional, and psychosexual care for women; 4) to develop the ability to recognize patients requiring specialized obstetric and gynecologic care; and, 5) to develop an awareness and inquisitiveness concerning obstetrics and gynecology upon which future knowledge can be added.

In the first year, the fundamentals of the obstetric-gynecologic history and examination are taught as a portion of the physical diagnosis course conducted by the Department of Internal Medicine. The presentation utilizes lectures, audiovisual instruction, model patient examinations, and outpatient observation and examination.

During the second year, faculty members teach Introduction to Obstetrics and Gynecology. This course is designed to provide background material in normal obstetrics and gynecology, to relate clinical material to other courses offered in the first and second years, and to serve as a foundation for the obstetrics and gynecology clerkship and electives in the third and fourth years.

A six week Clerkship in Obstetrics and Gynecology is presented during the third year. This clerkship introduces students to specific areas and disease processes of obstetrics and gynecology that are pertinent to all physicians. During the six week clerkship, students rotate for three weeks on the Obstetrics Service and three weeks on the Gynecologic Service. These rotations provide exposure to patients in the outpatient setting as well as in the hospital setting and include activities in labor and delivery and the operating room.

Several fourth year electives in obstetrics and gynecology are offered. These electives are designed to improve the clinical acumen of students in recognizing the problems of obstetric-gynecologic patients as individuals, to further students' educational experiences in the clinical care of patients with subspecialty obstetric and gynecologic

disorders, and to provide students with experiences that will enable those who are considering obstetrics and gynecology as a career to evaluate this decision as to its appropriateness.

Fourth year elective externships are offered and are individually designed to meet the needs of each student.

The research interests of faculty members include: gynecologic-oncology; reproductive endocrinology, including gamete and embryo research; gynecologic-urology; and high-risk obstetrics, as well as all areas of general obstetrics and gynecology.

**921. Introduction to Obstetrics and Gynecology. Credit 3.** Principles of normal reproductive medicine; menstrual function, conception, sexual differentiation; fetal and maternal physiology; antepartum patient evaluation; intrapartum and postpartum care. Prerequisite: Satisfactory completion of year 1 of the medical curriculum.

**982. Core Clerkship in Obstetrics and Gynecology.** Clinical obstetrics and gynecology, emphasizing pathologic conditions, with patient evaluation on the in- and outpatient services under supervision of the clinical faculty. Participation in seminars, conferences and clinical rounds. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

**983. Elective Clerkship in . . . 4 weeks.** Elective clerkship in a specific area of obstetrics and gynecology. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.

**985. Problems.** Directed study of selected problems in obstetrics and gynecology. Prerequisite: Approval of department head.

**991. Research.** Original clinical and/or laboratory investigation in a specific area of obstetrics and gynecology. Prerequisite: Approval of department head.

## DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE



**COLLEGE STATION CAMPUS - Professors** K.R. Dirks, J.A. Gordon (Head), R.S. Stone; **Associate Professors** G. J. Kochevar, W.S. Koss; **Assistant Professor** G. E. Davis; **Senior Lecturers** S. Geerling, L.E. Lindner.

**TEMPLE CAMPUS - Professors** S.C. Bauserman, J.A. Diaz, R.F. Peterson; **Associate Professors** H.R. Adams, J.B. Coulter III, S.M. Dobin, J.F. Greene, Jr., D.J. Ladd, W.B. McCombs III, E.S. Rappaport, A.M. Spiekerman; **Clinical Associate Professor** R.A. Reid; **Assistant Professors** R.S. Beissner, P.N. Brawn, B. Dabbas, J.R. DeVillier, L.R. Donner, D.W. Jay, E.H. Johnson, V.O. Speights, Jr., R.A. Trompler.

**OTHER - Clinical Professors** C.C. Conley (Waco), J.A. Jachimczk (Houston); **Clinical Assistant Professors** E.R. Eckert (Austin), D.P. Lynch (Houston), R.S. Zirl (Conroe).

It is the purpose of the Department of Pathology and Laboratory Medicine to: 1) provide appropriate learning opportunities for medical students, graduate students, postgraduate and practicing physicians; 2) pursue a variety of research projects at the basic and applied levels in the fields of human disease, seeking to provide an overview for those projects based on a knowledge of human disease; and, 3) provide appropriate and accurate diagnostic and consultative pathology service for patient care.

The department offers a required program of instruction in general, systemic, and clinical pathology to medical students throughout their second year and a selective two week rotation in a hospital pathology department in the required ambulatory clerkship in the fourth year.

General Pathology (host response to injury and introduction to clinical pathology) and Systemic Pathology (diseases of the organ systems) are taught in the first year. The pathology courses serve as a bridge between the basic sciences and the clinical disci-

plines. Approximately half of instructional time is allotted to laboratory study.

General Pathology presents disease processes as manifestations of a common set of mechanisms of injury. Topics included are the normal and adapted cell, inflammation and repair, cell and tissue injury as a result of infectious agents, immunologic events, vascular lesions, genetic abnormalities, lesions caused by physical and chemical substances, and the causes and behavior of neoplasms. Pathologic changes are correlated with the resultant clinical manifestations, and in this framework, a foundation for understanding specific diseases is established.

This foundation facilitates the survey in Systemic Pathology of the principal disorders of each organ system, instruction in the clinical laboratory procedures necessary to diagnose these conditions, and the intelligent and cost-efficient use of laboratory tests in patient care. Weekly clinicopathological conferences are conducted by students during the winter and spring.

The fourth year clerkship teaches students how to use the laboratory service and the consultant pathologist in an efficient and cost effective manner. Students participate in the work of anatomic and clinical pathology sections of the hospital laboratory. This clerkship also provides students with in-depth instruction in those disorders seen during their rotation.

Elective clerkships offered in the fourth year include: anatomic pathology, blood bank, clinical chemistry, clinical immunology, clinical microbiology, hematopathology, laboratory testing in endocrinology, academic pathology, and an elective in research.

Research interests of department members include the role of tyrosine kinases on the transformation of chick embryo fibroblasts by Rous sarcoma virus and the influence of vanadate; identification and characterization of an antigen found in cells derived from cancer of the kidney; the role of integrins in leukocyte diapedesis and tumor cell metastasis; novel staining techniques for the identification of neoplastic cells in cytology; and a variety of clinically oriented studies involving the gastrointestinal tract, bone marrow, prostate and cancer of the lung.

**923. Human Pathology I. Credit 4.** Language of disease, identification of morphological lesions in common diseases and relation of their causes and pathogenesis to resulting clinical manifestations. Basic laboratory skills. Prerequisite: Year 1 of medical curriculum or approval of department head.

**924. Human Pathology II. Credit 4.** Human diseases, their causes, pathogenesis, lesions and resulting manifestations. Prerequisite: MPAT 923 or approval of department head.

**925. Human Pathology III. Credit 4.** Continuation of MPAT 923 and 924. Prerequisite: MPAT 924.

**981. Seminar. (1-0). Credit 1.** Pathology seminar presenting selected areas in depth. Prerequisite: Year 1 of the medical curriculum or approval of department head.

**983. Elective Clerkship in . . . 4 weeks.** Elective clerkship in a specific area of pathology. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

**984. Selective Clerkship in . . . 2 or 4 weeks.** Selective clerkship in a specific area of pathology and laboratory medicine. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

**985. Problems in Pathology. Credit 1 or more.** Special problems in pathology. Prerequisite: Year 1 of the medical curriculum or approval of department head.

**989. Special Topics in . . . Credit 1 to 4.** Special topics in advanced pathology. Prerequisite: Year 1 of the medical curriculum or approval of department head.

**991. Research. Credit 1 or more.** The interest of the student and the supervising faculty member will determine the specific nature of the research. Prerequisites: Completion of years 1 and 2 of medical curriculum or approval of department head.

**992. Clerkship. Credit 2 to 8.** Application of knowledge learned in MPAT 923, 924 and 925 in the hospital laboratory setting. Prerequisite: First two years of the medical curriculum.



## DEPARTMENT OF PEDIATRICS



**Professors** W.R. Allen, G.W. Brasher, W.S. Conkling, L.S. Frankel, B.G. Gold (Head), H.B. Hahn, Jr., B.L. Koops, D.R. Krauss, N.G. Lawyer, J. Montgomery, C.D. Morehead, R.E. Myers, R. Peterson; **Associate Professors** J.R. Asbury, D.E. Crisp, C.A. Daniel, J.F. Daniel, S.M. Dobin, D.R. Hardy, C.E. Oltorf, W.A. Rae, D. Self, J.Q. Thompson, Jr.; **Clinical Associate Professors** N.A. Harris, S.S. Skrovan; **Assistant Professors** J. Blevins, S.K. Brandt, B. Browne, K.C. Burke, C. Cipriani, S. Coles, D. Custer, D.R. Douty, T.B. Douty, D.M. Foster, C. Fournier, B.A.T. Hagen, T.G. Hardaway, M. Marquardt, S.P. Nickel, B.R. Paull, D. Ransom, D. Schellhase, M. Sicilio, P. Stewart-Foulks; **Clinical Assistant Professors** K. Burford, K.S. Cheema, P. Goen, K.E. Matthews, A.K. Meyer, J.W. Parr, A.S. Patel.

Pediatrics is taught in two required courses - Introduction to Pediatrics in the second year and clinical clerkship in the third year. The introductory course consists of topic discussions by the students mediated by practicing pediatricians from Bryan/College Station. Major emphasis is placed on normal growth from birth through adolescence, including physical, mental/emotional, educational/cultural and language development. Preventive medicine and anticipatory guidance are stressed. Selected abnormal conditions are included to illustrate age-related disease and deviations from normal.

The six week pediatrics clerkship is offered throughout the third year and consists of three weeks in the hospital and three weeks in the outpatient clinic and intensive care units. The clerkship is designed to contrast the problems of children with those of adults, both the approach to the diseases themselves and their impact on the family. Only relatively common diseases are discussed in the 16 hours of topic discussions. In the hospital and outpatient clinic, students are encouraged to evaluate their patients first and compare their findings with those of the staff. Each year, 55,000 outpatient visits and 4,250 inpatient days assure students and the 16 residents sufficient numbers and diversity of patients. Residents and students are supervised by 31 staff pediatricians and four child psychologists. More than a third of the pediatricians practice general pediatrics and two-thirds practice a subspecialty.

Further experience in pediatrics is available from fourth year, four-week electives: outpatient, hematology/oncology; inpatient, neonatology, allergy, and pediatric intensive care. A Pediatric Honors Program has been established for fourth year students to foster experience in pediatric research and career planning.

**921. Introduction to Pediatrics. Credit 3.** Principles of pediatrics; normal physiological and psychosocial development of the newborn through adolescence. Prerequisite: Satisfactory completion of year 1 of the medical curriculum.

**982. Core Clerkship in Pediatrics.** Pediatrics under supervision of the faculty through participation in routine and emergency inpatient (ward and nursery) and outpatient pediatric care. The student will perform histories and physicals, learn problem solving techniques, and participate in conferences, seminars and rounds. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

**983. Elective Clerkship in . . . 4 weeks.** Elective clerkship in a specific area of pediatrics. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.

**991. Research.** Original clinical and/or laboratory investigation in a specific area of pediatrics. Prerequisite: Approval of department head.

## DEPARTMENT OF PSYCHIATRY AND BEHAVIORAL SCIENCE



**Professors** J.D. Burke, Jr. (Head), R.A. DeVaul, D.R. Jones, J. Knight, D. Rosen, R.R. Rynearson; **Associate Professors** J.L. Bodden, G.R. Brooks, G. Chintapalli, G.R. Elkins, L.A. Gamino, P.S. Hill, R.B. Nisbet, W.A. Rae, W.H. Reid, W.L. Stewart, B.J. Sutton; **Assistant Professors** L. Bains, R.A. Brandon, J.A. Cooney, C.J. Fournier, J.H. Fryer, W. Gregory, T.G. Hardaway, P.B. Hicks, D. Jermain, R.E. Krych, A. Mathew, W.J. Meek, R.W. Moczygamba, D.T. Orman, J.T. Parks, J.T. Pichot, K.D. Reddy, K.B. Robbins, D. Rudd, P. Rye, P.N. Sanchez, D.V. Spencer, C.V. Svoboda, P.E. Tolciu, C.L. Tsai, F.W. Willoughby; **Clinical Assistant Professor** A. J. Castiglioni, Jr.; **Instructors** J.L. Goza, A. Hill, S. Huber, M.E. McFarlane, T. Parr, C. Russell, K. Young; **Clinical Instructor** D.L. Parkinson; **Adjunct Professors** D. Jones, N. Sartorius; **Adjunct Associate Professors** W. H. Reid, B. Sutton.

The Department of Psychiatry and Behavioral Science has as its educational objectives teaching the psychological dimensions of the human life cycle, the psychological determinants of the doctor-patient relationship, and basic aspects of the diagnosis and treatment of mental disorders.

The first year is devoted to an introduction to the psychological aspects of human personality development throughout the life cycle with particular emphasis on developmental milestones and reactions to stress. Selected theoretical approaches to medical treatment in general and psychiatric treatment in particular will also be addressed. The course will meet twice a week during the spring.

The second year course will be given weekly throughout the year. The course will acquaint the student with the concepts of mental health and mental illness. The major psychiatric disorders will be covered descriptively by lectures supplemented by videotaped examples.

The third year clinical clerkship in Psychiatry lasts six weeks during which time students will be assigned clinical responsibilities under faculty supervision at several sites in the Central Texas area. Students will participate in the care of hospitalized psychiatric patients, observe assessment of inpatients on other clinical services and help conduct outpatient evaluations. The didactic portion of the clerkship will cover the phenomenology, diagnostic assessment and treatment of psychiatric disorders, principles of psychopharmacology, and interviewing skills.

The fourth year will contain a required two-week chemical dependency rotation during which the student will receive a basic education in the use/abuse of alcohol, other sedative-hypnotics, opiates, amphetamines, cannabinoids, hallucinogens, inhalants, and atropine-like drugs. The student will also be taught the principles of diagnosis, acute treatment and rehabilitation of chemically dependent patients.

Elective courses available in the fourth year are: child and adolescent psychiatry, advanced inpatient psychiatry, advanced outpatient psychiatry (psychotherapy), advanced chemical dependency treatment (four weeks) and clinical research design and application in psychiatry. Students may also take rotations in other areas of special interest so long as a specific faculty member is willing to supervise them and with the concurrence of the curriculum committee.

Research projects ongoing within this department include: Paroxetine or Fluoxetine in the treatment of depression; further studies of Serotonin and Dopamine mediated behaviors; startle response and evoked potentials in schizophrenia; preventing relapse of psychiatric patients following brief hospitalization; military stress and psychological adjustment of Vietnam veterans; partial hospitalization of high risk suicidal youth; predicting severity of neuropsychological impairment from the WAIS-R; and assessing performance of Quality-of-Life measures in psychiatric patients.

### Third-year Clerkship in Psychiatry

The third year clerkship in psychiatry is intended to have students develop basic knowledge about mental disorders, as well as develop skills enabling them to assess and manage patients with these illnesses. Psychiatric illness covers a wide range of conditions, from somewhat mild and self-limiting disorders to the most devastating and disabling illnesses that impair basic aspects of thought and behavior. Patients with these conditions can present in almost any specialty of medicine, and the physician's skill and sensitivity in recognizing and managing them are important components of the quality of care in every clinical setting.

The clerkship is designed to have students work in a variety of clinical settings, to be exposed to the full spectrum of psychiatric conditions. Rotations are selected to represent the most balanced and effective teaching services in the School's affiliated clinical facilities. At present, the basic rotation involves four hospitals:

**1. Scott and White Inpatient Psychiatry Service** - Two weeks will be spent at Scott and White, primarily on the inpatient psychiatry unit, which provides for the acute evaluation and stabilization of patients with a broad range of psychotic, affective, personality and dementing disorders. Students will be responsible for evaluating and following patients and for writing orders, admission and discharge notes, and progress notes on their patients under the close supervision of a senior staff psychiatrist. In addition, students will spend several afternoons in an outpatient clinic specifically designed to provide opportunity to assess new ambulatory patients presenting a broad range of conditions.

**2. Darnall Army Community Hospital Psychiatry Service** - Students will be assigned to the psychiatry inpatient service for active duty personnel, which serves as a crisis intervention unit and provides an opportunity to learn about forensic issues related to psychiatric conditions. In addition to following patients on this unit, students will also have the opportunity to see children and youth, with their families, in the child psychiatry clinic. Didactic material will also be presented in the form of case conferences and formal lectures.

**3. Veterans Administration Medical Centers** - At the Olin E. Teague Veterans' Medical Center in Temple, students will spend one week learning about patients with serious psychotic conditions, as well as about co-occurring mental disorders and substance use disorders in an outpatient setting. They will also see inpatients on other medical and surgical services as part of the consultation team.

At the Waco Veterans' Medical Center, students will have an opportunity to follow patients with serious, long-standing illness including schizophrenia, bipolar disorder and other psychotic conditions. They will also spend one day on an inpatient Post-traumatic Stress Disorder unit; instruction will be in the form of individual supervision, case conferences with formal presentation of patients, and formal lectures and seminars.

At the end of the six-week rotation, students will have an oral examination as well as the National Board of Medical Examiners Shelf Examination. Throughout the six weeks, students will have formal instruction in the form of lectures on psychopharmacology, psychopathology, psychiatric treatment and other issues such as ethical concerns related to the care of psychiatric patients.

**911. Working with Patients I. (3-1). Credit 4.** Physical, psychological and sexual aspects of human development. Illustrative cases presented by practicing physicians. Prerequisite: Admission to medical curriculum.

**941. Introduction to Clinical Psychiatry I. Credit 1.** Overview of psychiatric diagnosis in accordance with the Diagnostic and Statistical Manual of Mental Disorders; management and treatment of psychiatric disorders. Prerequisite: Completion of year 1 of the medical curriculum.

**942. Introduction to Clinical Psychiatry II. Credit 1.** Continuation of MPSY 941. Prerequisite: MPSY 941.

**943. Introduction to Clinical Psychiatry III. Credit 1.** Continuation of MPSY 942. Prerequisite: MPSY 942.

**982. Core Clerkship in Psychiatry.** Clinical psychiatry, with patient evaluation on the in- and outpatient services under supervision of the clinical faculty, participation in seminars, conferences, hospital and emergency room consultations, and in psychological and psychometric evaluations. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

**983. Elective Clerkship in . . . 4 weeks.** Elective clerkship in a special area of psychiatry. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.

**985. Problems. Credit 1 or more.** Special problems in psychiatry. Prerequisite: Approval of department head.

**989. Special Topics in . . . Credit 1 to 4.** Special topics in an identified area of psychiatry. Prerequisite: Approval of department head.

**991. Research. Credit 1 or more.** Research projects in the field of psychiatry. Prerequisite: Approval of department head.

## DEPARTMENT OF RADIOLOGY



**Professor J.L. Montgomery (Head); Associate Professors E.B. Best, Sr., P.D. Bourland, L. Canales, W.R. Carpentier, A.Y.C. Cheung, J.T. Davis, L.H. Deiterman, Jr., J.P. Eberts, T. Hopens, R.F. Kuhnhein, L.G. Naul III, A. Nitishin, F.C. Petty, E.J. Schoolar, Jr., J.M. Stobner, A.K. Teaford; Clinical Associate Professors G.F. Brossmann, E.A. Elmendorf; Assistant Professors S.P. Bartold, N.R. Braeuer, A.M. Donnelly, J.H. Hise, M.L. Nipper, R.J. Pischinger, F.G. Pratt, K.J. Ratajczak, R.S. Shah, R.R. Starks, G.P. Swanson, T.D. Truitt, J. Wu; Clinical Assistant Professor G.C. McCord.**

The Department of Radiology is responsible for the education of students in all fields of medical imaging including conventional radiography, nuclear radiology, ultrasound, computerized tomography and magnetic resonance. The department also instructs students in therapeutic radiology.

Medical imaging is one of the most important diagnostic tools available to the clinician. The field of medical imaging is rapidly expanding; the development of ultrasound and computerized tomography has revolutionized medical diagnosis. Advances in technology are rapidly changing the field of radiology with the development of new techniques such as digital radiology and sophisticated invasive procedures such as transluminal angioplasty. The field of nuclear medicine also continues to expand rapidly, particularly in the area of cardiac scanning and physiological studies. Radiation therapy plays a very important role in the treatment of cancer.

The educational mission of the department is to provide students strong backgrounds in the understanding of the imaging modalities available to the clinician, the indications for the various procedures, and the fundamentals of image interpretation.

A lecture course in medical imaging is required for students in the third year. The course stresses the fundamentals of roentgen interpretation and indications for the various imaging procedures.

Several electives are offered to fourth year students including diagnostic radiology, nuclear medicine, and therapeutic radiology. The four week elective in diagnostic radiology emphasizes image interpretation. Students work directly with radiologists and also make extensive use of the comprehensive teaching film file available in the department.

**931. Principles of Radiology. 18 clock hours.** Methods of medical imaging; conventional radiology, ultrasound, computerized tomography and nuclear radiology, and application of these methods to specific clinical problems. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

**983. Elective Clerkship in 2 weeks or 4 weeks.** Elective clerkship in a specific area of radiology. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.

**985. Problems.** Directed study of selected problems in radiology. Prerequisite: Approval of department head.

## DEPARTMENT OF SURGERY

### ◇ SURG ◇

**Professors** E.W. Ahlgren, G.O. Brindley, K.S. Coffield, R.D. Cunningham, L.G. Druipple, W.R. Engvall, R.H. Hayward, G.T. Keegan, R.C. Klugo, B.L. Koops, F.L. Korompai, A. Lenis, D.J. Lynch (Head), D.E. Pizar, J.W. Roberts, T. Ruff, S.K. Snyder, E.W. Stark, D.E. Waugh, R.R. White IV; **Professor Emeritus** G.V. Brindley, Jr.; **Clinical Professors** F.G. Anderson, Jr., W.M. Cocke, Jr., H. A. Hansen II, R.H. Harrison III; **Associate Professors** L.W. Adams, R. Ashcraft, C.L. Baisden, J.D. Bean, E.E. Bellens, R.G. Carlson, J.P. Dieckert, J.D. Fisher, D.R. Haywood, J.C. Hendricks, C.F. Johnson III, B.H. Kim, O.E. Kitchings III, W.L. Knight, K.R. Lecocq, W.E. Lowry, Jr., S.W. May, Jr., G.H. Morton, D.L. Myers, R.E. Symmonds, Jr., C.B. Tate, Jr., C.N. Verheyden, A.H. Wahlen; **Clinical Associate Professors** L.W. Coleman, Jr., W.C. Lloyd, III; **Assistant Professors** C.W. Akins, W.F. Andrew, H. Birkholz, T.M. Bittenbinder, W.B. Black, D.L. Boysen, S.K. Brandt, G.W. Brindley, H.H. Brindley, Jr., R.B. Buechler, K. K. Cantees, J.B. Carter, M.D. Custer, R.D. Davis, S.J. Dittmar, R.J. Dunlop, K.F. Elliott, D.L. Ellis, R.C. Frazee, V. Gennaro, J.R. Gibson, Jr., F.J. Gillette, Jr., W.P. Goforth, D. M. Gonzales, P.C. Grothaus, W.P. Hamilton, J.T. Havalda, M.R. Hermans, L.R. Hutchinson, L. Hutkoff, A. Jew, C.F. Kallina, J.L. Kethley, Jr., B.M. Knieriem, G.K. Koehler, R. A. Kupcha, A.G. Lueck, D.M. Lynch, J. Martin, T.K. Matthews III, A.J. McDavid, V.A. Mehta, S.A. Meuse, M.J. Miller, S.A. Norris, P.P. Pandya, D.D. Peterson, B.L.M. Pollock, R.A. Probe, R.L. Riess, C.R. Roberson, P. B. Ryan, K.H. Smith, R.W. Smith, D.J. Taylor, F.D. Todd II, R.D. Tuggle, C.A. Venus, F.J. Villamaria, M.R. Warner, J.A. Waxman, P.A. Wright, J.C. Wurster; **Clinical Assistant Professors** R. D. Alford, D.E. Beesinger, H.E. Bohne, A. Brenner-Wild, J.W. Ditzler, Jr., D. M. Euhus, J. Ferdorchik, Jr., J.B. Giles, J.B. Glenn, Jr., T.B. Gorden, G.L. Hemphill, M. A. Jandl, J. H. Kirby, M.B. Lindsay, W.H. Marr, M.F. McMahon, S.C. Opersteny, R. Quinones, M.B. Riley, J. P. Robert, N.D. Shipman, D.M. Stauch, R. M. Tolls, M. H. Wilkerson, A.K. Young, R.R. Young, Jr.; **Instructors** H.G. Beaver, K.I. Haji, M. LaPan, T.H. McCollum, V.H. Salzman, S.M. Scott, J.A. Togami, F.N. Wardell.

The required third year clerkship taught by the Department of Surgery is designed to expose students to the basic principles of surgery, not to surgical techniques. Students are instructed in some techniques used in minor surgery. Major emphasis is given to the principles of wound healing, fluid and electrolyte balance, the introduction to specific surgical diseases, organ trauma, inflammatory responses and malignancy. Ward rounds and assignment of patients to students offers an opportunity for preoperative evaluation and the acquisition of sound surgical judgment. Daily surgical lectures, semiweekly subspecialty seminars, and surgical grand rounds provide students the opportunity to enhance their abilities. Participation in the operating room, postoperative management and case presentations help to complete the total surgical experience and provide continuity of care.

The fourth year elective and selective program allows further experience in the Divisions of Anesthesiology, General Surgery, Ophthalmology, Orthopedic Surgery, Otolaryngology, Plastic Surgery, Urology, Thoracic, and Cardiovascular Surgery. Students may also participate in patient management in the Pain Clinic.

Student participation in any ongoing research program is welcome.

**982. Core Clerkship in Surgery.** Clinical surgery, with workup of patients and participation with the clinical faculty in preoperative evaluation, operative procedure and postoperative care. Participation in clinical rounds, conferences, emergency room and formal classroom activity. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

**983. & 984. Elective Clerkship in . . . 2 or 4 weeks.** Elective clerkship in a specific area of surgery. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.

**985. Problems.** Directed study of selected problems in surgery. Prerequisite: Approval of department head.

**987. Advanced Cardiac Life Support. Credit 1.** Diagnosis and treatment of acute cardiac emergencies in infants, children and adults. Prerequisite: Completion of years 1, 2 and 3 of the medical curriculum.

**991. Research.** Original clinical and/or laboratory investigation in a specific area of surgery. Prerequisite: Approval of department head.

# RESEARCH INSTITUTES

## MICROCIRCULATION RESEARCH INSTITUTE

Director: H.J. Granger

The mission of the Microcirculation Research Institute is to foster investigations of microscopic blood vessels, the extracellular matrix and lymphatics. Scientists from the Colleges of Medicine, Engineering, Science, and Veterinary Medicine have contributed to the research and training programs of the institute. Regular communications between investigators is facilitated by the biweekly Microcirculation Research Forum.

The research interests of institute scientists range from molecular and cell biology to systems physiology and engineering sciences. A major thrust is elucidating the cellular basis of function and dysfunction of vascular smooth muscle and endothelium, the basic building blocks of microscopic blood vessels. At the single microvessel and microvascular network levels of organization, the processes involved in control of blood flow and exchange of material between blood and tissues are under investigation. A variety of technologies are utilized to probe the normal and abnormal behavior of the microcirculation including electron microscopy, tissue culture, immunochemistry, cytochemistry, histochemistry, quantitative intravital microscopy, computer simulation, and digital analysis of video images. These techniques are being applied to studies of normal microcirculatory dynamics in tissues such as heart, brain, intestine, liver, skin, muscle and retina. Applied research focuses on the involvement of the microvasculature in myocardial infarction, stroke, hypertension and inflammation. In addition, a research and development program in bioinstrumentation and computer science has evolved to facilitate quantification of a variety of microcirculatory variables and processes.

The research programs of the institute are supported by grants and awards from the National Institutes of Health and the American Heart Association. Graduate assistantships and postdoctoral fellowships are available to support individuals committed to microcirculatory science as a career. In addition, the institute sponsors the participation in its research programs of students in high school, college, and medical school.

## INSTITUTE OF OCULAR PHARMACOLOGY

Director: G.C.Y. Chiou

A great many diseases and disorders of the eye are associated with aging. More than half of all visual impairment occurs in people age 65 or older. People today are living longer, but many are kept from enjoying certain benefits of this longevity by visual problems. Improved prevention, diagnosis and treatment of eye diseases and disorders in the elderly are therefore of great importance. The research for maintaining healthy eyes has been much too little for far too long.

Research in the Institute of Ocular Pharmacology has resulted in development and patenting of three effective new pharmaceuticals for the treatment of glaucoma. Glaucoma is the number one cause of blindness in the United States, including the state of Texas. Research is also under way to find active agents for the treatment of ocular inflammation, retinal degeneration, cataract, and ocular infection.

Recent development of "systemic delivery of peptide drugs through eyes" will result in a painless, simple, and economical administration method which replaces needles and syringes.

The Institute of Ocular Pharmacology publishes quarterly the *Journal of Ocular Pharmacology*. This international publication disseminates original research findings from both basic and clinical ocular pharmacology. It also makes the Texas A&M University College of Medicine known to the world.

## INSTITUTE OF MOLECULAR PATHOGENESIS AND THERAPEUTICS

Codirectors: S.H. Black, G.C.Y. Chiou, G.M. Ihler.

The goal of the Institute of Molecular Pathogenesis and Therapeutics is to conduct basic research into the origins and causes of disease at the molecular level and to apply this research to find improved therapeutic measures to prevent, ameliorate, or cure specific illnesses. The institute is an interdisciplinary organization with members from the Departments of Medical Biochemistry and Medical Genetics, Medical Microbiology and Immunology, and Medical Pharmacology and Toxicology. Current research undertaken by investigators within the institute includes studies on: 1) the uses of erythrocytes and liposomes as DNA delivery vehicles; 2) the etiology of glaucoma and myasthenia gravis; 3) GABAergic involvement in alcoholism and its withdrawal; 4) detoxification of cyanide and insecticide poisoning at the molecular level; 5) central nervous system involvement of aging; 6) the genetics and biochemistry of plasmid transfer; 7) nutrition and host defense mechanisms; 8) functions of viral gene products; and 9) an *ex vivo* culture system for assessing the activity of chemotherapeutic agents against tumor cells.

Research in the institute receives its primary funding from the National Institutes of Health. The institute sponsors a student research and training program. It uses grant funds to support the participation of high school students, undergraduates, medical students, and graduate students in its research programs.

## CENTER FOR THE STUDY OF CELL SURFACES

Director: G.M. Ihler

The Center for the Study of Cell Surfaces was formed in 1985 to coordinate personnel, facilities, and equipment at the College of Medicine for both basic and clinical research on: 1) the structure and properties of the cell surface and its proteins, 2) the isolation of genes concerned with cell surface properties, 3) the sequencing of DNA and nucleic acid analysis, 4) the isolation of immunogenic proteins for which protective antibodies offer the hope of disease prevention in human and veterinary medicine, and 5) the use of erythrocytes and liposomes as drug carriers.

The center utilizes a multidisciplinary approach to its research, combining the expertise and resources of the Departments of Medical Biochemistry and Medical Genetics, Medical Microbiology and Immunology, and Pathology and Laboratory Medicine.

Facilities available for use by researchers in the center include the Laboratory for Cloning and Gene Transfer, the Laboratory for Electron Microscopic Analysis of Cell Membranes, and a fluorescence-activated cell sorter. In addition, researchers have access to materials from the Tissue Culture Laboratory at Scott and White.

Graduate assistantships and postdoctoral fellowships are available to support individuals who wish to pursue research on cell surfaces. In addition, the center sponsors student participation in its research programs.



## CENTER FOR HEALTH SYSTEMS AND TECHNOLOGY

Director: R.S. Stone

The Center for Health Systems and Technology was established in 1983 to coordinate interdisciplinary research and educational programs that transfer technology developed by disciplines outside medicine into health care. The center is currently engaged in research and educational programs that involve faculty members from the Colleges of Medicine, Engineering, Business, Architecture and Environmental Design, Education, and Liberal Arts.

The center has undertaken programs to: 1) broaden the curriculum of the College of Medicine by incorporating units of study from public health and preventive medicine, health care economics and medical sociology; 2) increase understanding of the effects of technology on the organization and delivery of health care through health services research; 3) improve long-term geriatric care by designing an engineered environment that enhances the physical and mental well-being of the disabled and elderly while facilitating the delivery of health care services; and, 4) develop a data base that provides a computerized bibliographic resource for members of the center.

The center supports programs for graduate student training in interdisciplinary approaches to problems in health care organization and delivery.

The programs of the Center are closely linked to those of the Health Policy Institute, University of Texas Health Sciences Center, Houston.

## INSTITUTE FOR HEALTH CARE EVALUATION

Director: W.R. Gold

The goal of the Institute for Health Care Evaluation is to establish links between the research capabilities of the College of Medicine and the other investigative efforts throughout the University in the area of health services research. Health services research broadly includes issues of efficacy, effectiveness, cost, access and quality of health care.

The Institute works to improve the quality of health care at the most effective cost; to develop collaborative research efforts between the College of Medicine and the other colleges at Texas A&M University in the area of medical product research and development; to offer a unique environment of medical and technical expertise to corporations and agencies developing new medical technologies; and to establish a liaison between University faculty members and corporations for sponsorship of new medical product ideas.

## *Postgraduate Appointments for the Class of 1992*

**Alikhan, Amina Naqi**; B.S. Basic Medical Science (1990), Texas A&M University.

Residency: Internal Medicine, Michigan State University Program, East Lansing, Michigan.

**Almendarez, Valentin, Jr.**; B.A. Biology (1988), University of Texas.

Residency: Obstetrics/Gynecology, University of Texas Medical Branch Hospital Program Galveston, Texas.

**Belknap, Mark Lee**; B.S. Life Science (1988), University of Texas of the Permian Basin.

Residency: Surgery, USAF Medical Center (Keesler) Program, Biloxi, Mississippi.

**Brasfield, Farah Naz Mohebpour**; B.S. Biochemistry/Biophysics (1984), University of Houston.

Residency: Internal Medicine, University of Arizona Medical Program, Tucson, Arizona.

**Bush, Sean Paul**; B.S. Biology (1988), Texas A&M University.

Residency: Emergency Medicine, Loma Linda University Programs, Loma Linda, California.

**Chesser, Michael Sean**; B.S. Biochemistry (1988), Texas A&M University.

Residency: Internal Medicine, Alton Ochner Foundation, New Orleans, Louisiana.

**Clay, Nancy Jill**; B.S. Biology (1988), Hardin Simmons University.

Residency: Family Practice, Tripler Army Medical Center, Honolulu, Hawaii.

**Dang, John Tai**; B.S. Basic Medical Science (1990), Texas A&M University.

Residency: Family Practice, McLennan County Family Practice Program, Waco, Texas.

**Davey, Joseph Patrick**; B.S. Chemical Engineering (1983), University of Texas.

Residency: Orthopedics, University of California at San Diego Program, San Diego, California.

**Dickerson, Karen Delane**; B.S. Biology (1987), Stephen F. Austin University.

Residency: Anesthesiology, University of Texas at Houston Program, Houston, Texas.

**Erwin, John Preston, III**; B.S. Biology (1988), Stephen F. Austin University.

Residency: Internal Medicine, Mayo Graduate School of Medicine Program, Rochester, Minnesota.

**Ex, David Anthony**; B.S. Biology (1988), University of Houston.

Residency: Diagnostic Radiology, Texas A&M University College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

**Fahlberg, Laura Lynn**; B.S. Chemistry (1987), Trinity University; B.A. Psychology (1988), Trinity University.

Residency: Psychiatry, University of Arkansas for Medical Sciences Program, Little Rock, Arkansas.

**Fritz, Jed Stewart**; B.S. Biology (1987), University of Texas at San Antonio.

Residency: Family Practice, University of Texas Southwestern Medical School, Program D, Fort Worth, Texas.

**Griffin, Anna Katherine;** B.S. Biochemistry (1988), Texas A&M University.

Residency: Internal Medicine, Texas A&M University College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

**Haddox, Linda;** B.S. Microbiology (1988), Texas A&M University.

Residency: Obstetrics/Gynecology, University of Texas Southwestern, Medical School Program, Dallas, Texas.

**Hamilton, Kenneth Wayne;** B.S. Biophysics (1988), Trinity University.

Residency: Internal Medicine, University of Kansas, Medical Center Program, Kansas City, Kansas.

**Kelso, Kalin Don;** B.S. Biology (1987), Lamar University.

Residency: Orthopedics, Texas A&M University College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

**Krishnan, Ravinderan;** B.S. Basic Medical Science (1990), Texas A&M University.

Residency: Transitional, Baylor College of Medicine, Houston, Texas, Ophthalmology, Mayo Graduate School of Medicine, Rochester, Minnesota.

**LaNoue, John Long, Jr.;** B.A. Religion (1984), Baylor University.

Residency: Surgery, University of Texas Southwestern, Medical Program, Dallas, Texas.

**Lester, Mitchell Norman;** B.S. Biology (1988), University of Houston.

Residency: Internal Medicine, University of Oklahoma, Tulsa Medical College Program, Tulsa, Oklahoma.

**Long, Sharon Marsha;** B.S. Biology (1988), Texas A&M University.

Residency: Emergency Medicine, Orlando Regional, Medical Center Program, Orlando, Florida.

**Longmoor, Charles Erle;** B.S. Basic Medical Science (1990), Texas A&M University.

Residency: Internal Medicine, Texas A&M University College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

**Luna, Matthew James;** B.S. Biochemistry (1987), Texas A&M University.

Residency: Surgery, University of Texas at San Antonio Program, San Antonio, Texas.

**Mallet, Maryrita Kaiser;** B.S. Biology (1983), The Catholic University of America.

Residency: Psychiatry, University of Texas Southwestern, Medical Program, Dallas, Texas.

**Martinez, Patricia E. Villaneuva;** B.S. Basic Medical Science (1990), Texas A&M University.

Residency: Pediatrics, University of Arizona Program, Tucson, Arizona.

**Martinez, Patrick F.;** B.A. Biology (1986), Texas A&M University.

Residency: Family Practice, University of Arizona Program, Tucson, Arizona.

**Mohammed, Richard Shameed;** B.S. Basic Medical Science (1990), Texas A&M University.

Residency: Family Practice, Halifax Medical Center Program, Daytona Beach, Florida.

**Moulds-Merritt, Christine C.;** B.S. Biology/Chemistry (1988), Southwestern University.

Residency: Surgery, Texas A&M University College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

**Murnane, Thomas George;** B.S. Psychology (1981), Texas A&M University.

Residency: Radiology, U.S. Army Coordinated Program, Fitzsimmons Army Medical Center, Denver, Colorado.

**Neisner, David Robert;** B.S. Basic Medical Science (1990), Texas A&M University.

Residency: Family Practice, Memorial Medical Center Program, Corpus Christi, Texas.

**Parker, James Alvin, Jr.;** B.S. Medical Technology (1986), University of Texas Medical Branch.

Residency: Anesthesiology, Texas A&M University College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

**Prvulovic, Tomi T.;** B.S. Biology (1988), University of Houston.

Residency: Anesthesiology, Hackensack Medical Center Program, Hackensack, New Jersey.

**Saffer, Tracy Hope;** B.A. Spanish (1987), University of Texas.

Residency: Family Practice, Phoenix Baptist Hospital and Medical Center, Family Practice Program, Phoenix, Arizona.

**Sartor, Tammy Lee;** B.S. Radiation Protection Engineering (1979), Texas A&M University; M.S. Nuclear Engineering (1981), Texas A&M University.

Residency: Surgery, Emanuel/Kaiser Hospitals Program, Portland, Oregon.

**Scherer, David Murray;** B.S. Biomedical Medical Science (1990), Texas A&M University.

Residency: Internal Medicine, Texas A&M University College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

**Simmons, Jeané Raycheal;** B.A. Biology (1988), University of Texas.

Residency: Obstetrics/Gynecology, Medical College of Pennsylvania Program, Philadelphia, Pennsylvania.

**Snow, Tasca Darlene;** B.S. Biology (1984), Baylor University; M.S. Biology (1986), Texas A&M University.

Residency: Leave of Absence.

**Stanko, Sue Ellen;** B.A. Chemistry (1988), Baylor University.

Residency: Pediatrics, Eastern Virginia, Graduate School of Medicine Program, Norfolk, Virginia.

**Thompson, William Eugene;** B.S. Basic Medical Science (1990), Texas A&M University.

Residency: Surgery, Georgia Baptist Medical Center Program, Atlanta, Georgia.

**Vance, Karen Kendall;** B.S. Biochemistry (1984), Texas A&M University.

Residency: Internal Medicine, Vanderbilt University Program, Nashville, Tennessee.

**Win, Sonny;** B.S. Biology (1984), Texas A&M University.

Residency: Internal Medicine, University of Kansas, Medical Center Program, Kansas City, Kansas.

## *Class of 1993*

- Adams, John Quincy;** Harker Heights. B.S., Texas A&M University, 1987.
- Baker, Amanda L.;** Temple. B.S., Texas A&M University, 1989.
- Baker, Paul L.;** Belton. B.S., Southern Methodist University, 1989.
- Baxter, Lynn Marie;** Caldwell. B.A., University of Texas at Austin, 1976; M.A., International School of Theology, 1985.
- Belew, Michael S.;** Beeville. B.S., Texas A&M University, 1989.
- Berlinger, Gary Charles;** Honolulu, Hawaii. B.S., Chaminade University of Hawaii, 1974; M.S., American University, D.C., 1981.
- Cantu, Nora L.;** Del Rio. B.A., Texas A&M University, 1989.
- Cardillo, Douglas M.;** Cypress. B.A., Austin College, 1988.
- Cravey, Russell S.;** Roscoe. B.S., Texas A&M University, 1988.
- Daniel, Daryl K.;** Hempstead. B.S., University of Texas Health Science Center at Houston, 1988.
- Day, Miles Russell;** San Antonio. B.A., University of Texas at Austin, 1989.
- Goetzke, Elizabeth Anne;** San Antonio. B.A., Texas A&M University, 1988.
- Hagelstein, Laura Lou;** Graham. B.A., University of Texas at Austin, 1989.
- Hamilton, Kerry L.;** Blacksburg, Virginia. B.S., Texas A&M University, 1989.
- Harrison, Claire W.;** Houston. B.S., Southwestern University, 1987.
- Jamison, Joseph A.;** Houston. B.A., Rice University, 1989.
- Kastner, Randy Ray;** Lexington. B.A., Texas A&M University, No Degree.
- Kessman, Jennifer R.;** Clear Lake. Texas A&M University, No Degree.
- King, Curtis David;** Grand Saline. Texas A&M University, No Degree.
- Krenek, Gregory;** Wharton. B.A., Texas A&M University, 1979; M.S., Texas A&M University, 1980.
- Latham, Angela C.;** Richardson. B.S., University of Missouri, 1983.
- Lawrence, Glenn L.;** Corpus Christi. B.S., Texas A&M University, 1988.
- Martin, Todd Henry;** Mason. Texas A&M University, No Degree.
- Martinez, Angel, III;** McAllen. B.A., Texas A&M University, 1989.
- McClintock, Jean;** Nederland. Texas A&M University, No Degree.
- Moorhead, Cynthia L.;** San Antonio. B.S., University of Florida, 1985.
- Montgomery, Mark L.;** Temple. B.S., Baylor University, 1985.
- Moreno, Luis Antonio;** Houston. B.A., Rice University, 1989.
- Morris, Wayne B.;** Coraopolis, Pennsylvania. B.S., Case Western Reserve University, 1980.
- Nguyen, Hoang Dao;** Mesquite. B.S., Texas A&M University, 1986.
- Novak, Kerry W.;** Canton. Texas A&M University, No Degree.
- Patel, Rajeev J.;** Bay City. Texas A&M University, No Degree.
- Polley, Charles Scott;** Tyler. Texas A&M University, No Degree.
- Reitmeyer, Margaret Ruth;** Hitchcock. B.S., Texas A&M University, 1989.
- Richardson, Wade A.;** Moody. B.S., AC University, 1989.
- Roby, Richard E.;** Richardson. B.S., University of Texas at Dallas, 1988.
- Smith, Charles H.;** Dickenson. Texas A&M University, No Degree.
- Spaw, Jeffrey N.;** Elgin. B.S., Texas A&M University, 1988.

**Stallard, Timothy C.;** Kemp. B.S., Tarleton State, 1985.  
**Tolentino, Hugo Rodriguez;** Harlingen. B.S., Yale, 1985; Cert., Pan American, 1988.  
**Van Boskirk, Karen L.;** Nederland. B.S., Texas A&M University, 1989.  
**Vander Straten, David;** Kemp. B.S., Southwestern University, 1989.  
**Zasuly, James M.;** Plano. B.S., Texas A&M University, 1987.

### *Class of 1994*

**Alfeche, Alice;** Houston. B.S., University of Houston, 1989.  
**Amirdelfan, Kasra;** Dallas. B.S., Texas A&M University, 1989.  
**Anguiano, Aaron;** Houston. B.S., University of Houston, 1986.  
**Arko, Frank;** College Station. Texas A&M University, No Degree.  
**Baiza, Roland;** San Antonio. B.S., Incarnate Word College, 1990.  
**Barnes, Carlin;** Houston. B.A., University of Virginia, 1990.  
**Bavikati, Neeta;** Beaumont. B.A., University of Texas at Austin, 1990.  
**Bennett, Jeffrey;** El Paso. B.S., Texas A&M University, 1990.  
**Bohannon, William;** Killeen. B.S., Texas A&M University, 1990.  
**Carwile, John;** Montgomery. B.S., Texas A&M University, 1989.  
**Clark, Chris;** Austin. B.A., University of Texas at Austin, 1989.  
**Downey, Charles;** Austin. B.S., Texas A&M University, 1990.  
**Duvall, Darren;** Abilene. B.S., Abilene Christian University, 1990.  
**Eakin, Kimberly;** Jersey Village. B.S., Texas A&M University, 1989.  
**Gomez, Omar;** Fort Worth. B.S., University of Texas at Arlington, 1989.  
**Gopalakrishnan, Geetha;** College Station. Texas A&M University, No Degree.  
**Hammond, Tami;** Corpus Christi. B.S., Texas A&M University, 1990.  
**Hernandez, Rosa;** Dallas. B.S., Baylor University, 1989.  
**Holmes, Amanda;** Paris. B.S., Texas A&M University, 1990.  
**Hughes, Michael;** Odessa. B.S., Texas A&M University, 1990.  
**Jackson, James;** Waco. B.S., Baylor University, 1990.  
**Johnson, Jennifer;** Boerne. B.S., Texas A&M University, 1990.  
**Jones, John;** Monahans. B.S., Dallas Baptist University, 1990.  
**Jones, Kathleen;** Houston. B.S., Texas A&M University, 1990.  
**Kenney, John;** Baytown. B.A., University of Texas at Austin, 1982.  
**Khan, Salma;** Beaumont. B.S., University of Houston, 1988.  
**Kirton, Giselle;** Temple. B.S., Texas A&M University, 1990.  
**Layne, Susan;** Mt. Pleasant. B.S., University of Iowa, 1989.  
**McClure, Carol;** Charleston, West Virginia. B.S., Texas A&M University, 1986.  
**Messbarger, Vincent;** Austin. AAS, Austin Community College, 1983.  
**Morehead, Daniel;** Temple. B.A., Pepperdine University, 1987.  
**Pearlman, Stuart;** Foster City, California. B.A., University of California at San Diego, 1990.  
**Pierce, Aleta;** Stephenville. B.S., Tarleton State University, 1979; B.S., Texas A&M University, 1981;  
DVM, Texas A&M University, 1982.

**Rossman, Michael**; Longview. B.A., Baylor University, 1990.  
**Scheiner, Michael**; Kingsville. B.A., University of Delaware, 1990.  
**Seim, Michael**; Waco. B.S., University of Notre Dame, 1990.  
**Snuggs, John**; Pampa. B.S., Texas A&M University, 1990.  
**Tannous, Jeanet**; Houston. B.S., University of Texas at Austin, 1990.  
**Warren, Cheryl**; Denton. B.A., Baylor University, 1990.  
**Warren, Thomas**; Carthage. B.S., Baylor University, 1990.  
**Welch, Melody**; Houston. B.S., Trinity University, 1990.  
**Whelchel, Jeffery**; Claude. B.S., Wayland Baptist University, 1990.  
**Whitt, Paul**; College Station. B.A., Texas A&M University, 1981.  
**Yo, In Soo**; Harker Heights. B.A., University of Texas at San Antonio, 1990.  
**Young, David**; Arlington. B.S., Baylor University, 1989.  
**Young, Jerome**; Seabrook. B.S., Texas A&M University, 1988.  
**Zolinski, Cynthia**; Saginaw, Michigan. B.S., Alma College, 1998.

### *Class of 1995*

**Barrella, Amanda**; San Antonio. B.S., St. Mary's University, 1990.  
**Barrera, Victoria**; Temple. B.S., Texas A&M University, 1991.  
**Bell, Robert**; Hewitt. B.S., Baylor University, 1990.  
**Bennett, Kelly**; Cleburne. B.S., Abilene Christian, 1991.  
**Bermudez, Jairo**; San Antonio. B.S., UT San Antonio, 1988.  
**Beshires, Eric**; Garland. B.S., Texas A&M University, 1991.  
**Bishop, Laura**; Decatur. B.A., Austin College, 1991.  
**Bradshaw, William**; Fort Worth. B.S., University of North Carolina, 1991.  
**Castellanos, Luis**; San Antonio. B.S., Texas A&M University, 1988.  
**Conflitti, Joseph**; Fredricksburg. Texas A&M University, No Degree.  
**Conway, Warren**; Silsbee. B.S., Texas A&M University, 1990.  
**Crews, Kelly**; Victoria. Texas A&M University, No Degree.  
**Do, Nam**; Amarillo. B.S., West Texas State, 1991.  
**Franklin, Sherry**; Austin. B.A., University of Texas at Austin, 1991.  
**Given, Brian**; San Antonio. B.S., Baylor University, 1991.  
**Goen, Tracy**; Lake Charles, Louisiana. Texas A&M University, 1989.  
**Gogulski, David**; College Station. B.S., Texas A&M University, 1991.  
**Green, Scott**; Livermore, California. Brigham Young University, No Degree.  
**Hammer, David**; Ontario, Oregon. B.A., Brigham Young University, 1987.  
**Heinz, Stephan**; College Station. B.S., Texas A&M University, 1978.  
**Johnson, Christopher**; Athens. B.S., Texas A&M University, 1990.  
**Kastner, Donney**; Lexington. Texas A&M University, No Degree.  
**Khudatyan, Grachya**; Yerevan, Armenia. B.S., University of Houston. 1991.  
**Konen, Andrew**; Fort Worth. B.S., Baylor University, 1991.  
**Kottman, David**; San Antonio. B.A., Trinity University, 1991.

**Krueger, Janet**; Hyattsville, Maryland. B.S., Texas A&M University, 1991.

**Lemons, Warren**; Houston. B.S., Texas A&M University, 1991.

**Lemmond, Keri**; Dickinson. B.S., Stephen F. Austin University, 1990.

**Liggan, Deborah**; Burke, Virginia. B.A., SUNY, 1982; M.A., Webster University, 1985.

**Mistry, Fulvantiben**; Bryan. B.S., Haile Sellassie University, 1970; M.S., Texas Christian University, 1972; Ph.D., Texas A&M University, 1977.

**Morgan, Garth**; Corpus Christi. B.S., Texas A&M University 1987; MPH, UT School of Public Health, 1990.

**Oandasan, Aileen**; Lake Jackson. B.S./B.S., Southwestern, 1991.

**Petersen, Lance**; Idaho Falls, Idaho. B.S., Indiana University, 1989.

**Prabhu, Fiona**; Ottawa, Canada. B.S., McGill University, 1988.

**Richmond, Michael**; Richardson. B.S., Texas A&M University, 1990.

**Rosecrans, Shay**; Corpus Christi. Texas A&M University, No Degree.

**Sheahan, Teresa**; Austin. B.S., University of New Mexico, 1987.

**Shelton, Laura**; Corpus Christi. B.A., Texas A&M University, 1991.

**Shupack, Ian**; Weston, Connecticut. B.S., Washington & Lee University, 1991.

**Sligh, Scott**; Austin. B.S., University of Texas at Austin, 1987.

**Sonnen, Gregory**; San Antonio. B.S., Texas A&M University, 1991.

**Vickers, Dana**; Paris. B.S., Texas A&M University. 1991.

**Wilke, Eric**; Waco. Texas A&M University, No Degree.

**Williams, Kimberly**; Prairie View. B.S., Prairie View A&M, 1991.

**Wright, John**; Duncanville. B.S., Texas A&M University, 1990.

**Vytla, Bhaskara**; Houston. B.S., Birla Institute, 1984; M.S., Andhra University, 1987; M.S., University of Houston, 1991.

**Zwernemann, Robert**; Houston. B.A., Baylor University, 1990.

### *Class of 1996*

**Airhart, Jim Bob**; Mesquite. B.A., Texas A&M University, 1992.

**Albritton, Ford D., IV**; Dallas. Texas A&M University, No Degree.

**Arnaud, Catherine**; San Antonio. B.A., University of Texas at Austin, 1991.

**Baquero, Jeannie**; Spring. B.S., Texas A&M University, 1992.

**Baxter, Leah**; Alice. B.S., Texas A&M University, 1992.

**Chen, Philip, Kuan Wen**; Houston. B.S., University of Pennsylvania, 1992.

**Davis, Jad Lee**; College Station. B.S., Stephen F. Austin State University, 1992.

**Dickie, Mark Hansen**; Gatesville. B.S., Texas A&M University, 1991.

**Dunfee, William Rhey**; Sulphur Springs. B.S., University of the South, 1991.

**DuPont, Jessica**; Austin. B.S., Southwestern University, 1991.

**Ellis, Christopher James**; Houston. B.S., Texas A&M University, 1991.

**Ferguson, Charles Evans**; College Station. B.A., Texas A&M University, 1992.

**Fisch, Jason Paul**; Bryan. B.S., Texas A&M University, 1992.

**Garner, Garrett Houston**; Dallas. B.A., Vanderbilt, 1992.

**Gonzalez, Dagoberto Israel, Jr.**; Laredo. B.S., Texas A&M University, 1992.



- Gore, Garry Lynn**; College Station. B.S., Texas A&M University, 1984.
- Guerra, Rebecca Marsell**; Bryan. B.A., Rice University, 1992.
- Harris, Caleb Hudgins**; Wharton. B.A., Rice University, 1992.
- Heston, Pamela Christine**; Mason City, Iowa. B.S., University of Houston, 1992.
- Hicks, Tracy Diane**; Plano. B.S., Texas A&M University, 1992.
- Kelly, Adrienne Moore**; Seattle, Washington. B.S., Texas A&M University, 1991.
- LaHart, Norma Lee**; Bryan. B.S., University of Texas at Permian Basin, 1990.
- Lamar, Michael Everett**; College Station. B.S., Texas A&M University, 1987.
- Lancaster, Amy Rebecca**; Nacogdoches. B.S., Stephen F. Austin State University, 1992.
- Lemmond, Keri Lee**; Dickerson. B.S., Stephen F. Austin State University, 1990.
- Liggan, Deborah, Yvonne**; San Antonio. B.A., State University of New York, Albany, 1982; M.A., Webster University, Missouri, 1985.
- Lopez, Lisa Marie**; Bryan. B.S., Tarleton State University, 1992.
- Lord, David Cowan**; Bryan. B.A., University of Texas at Arlington, 1984.
- Makoske, Theodore Alexander**; Magnolia. University of Texas. No Degree.
- McNeal, Catherine**; College Station. B.A., Texas A&M University; Ph.D., Texas A&M University, 1980.
- Morgan, Garth**; Houston. B.S., Texas A&M University, 1988; M.P.H., University of Texas School of Public Health, 1990.
- Mumm, Cynthia Lynn**; Lake Charles, Louisiana. B.S., Texas A&M University, 1992.
- Nelson, Darren Lewis**; Duncanville. B.S., Texas A&M University, 1991.
- Nguyen, Khanh Trang Thi**; Grand Prairie. B.S., Southern Methodist University, 1992.
- Niedermeyer, Valery Ann**; Plano. B.S., University of Southern California, 1991.
- Nisimblat, Erik**; Alice. B.S., Texas A&M University, 1992.
- Overmeyer, Pamela Ann**; Texarkana. B.S., Texas A&M University, 1992.
- Peet, John Joseph**; Conroe. B.A., University of Texas at Austin, 1992.
- Pirinelli, Jeffrey John**; Dallas. B.S., Southern Methodist University, 1990.
- Potter, Michael Bradley**; Wilton, Connecticut. B.A., University of Virginia, 1991.
- Rivers, Thomas Burk**; Iola. B.S., Texas A&M University, 1992.
- Schmiege, Lorenz Martin, III**; B.S., Texas A&M University, 1992.
- Schroeder, Denise Kathleen**; Madisonville. B.S., Mount Marty College, South Dakota, 1985.
- Seabolt, Brian Rick**; Conroe. Texas A&M University. No Degree.
- Taylor, Jason Grant**; Longview. B.S., Vanderbilt, 1992.
- Tindall, Bronson Shane**; College Station. Texas A&M University. No. Degree.
- Turell, David Charles**; Houston. B.A., Washington University at St. Louis, 1992.
- Vazquez, Noemi**; Houston. B.S., University of Houston, 1992.
- Verma, Neeta**; Kingwood. B.S., Baylor University, 1992.
- Waguespack, Jeffrey Wayne**; Port Neches. Texas A&M University. No. Degree.
- Wehner, Margaret Sheryl**; Houston. B.S., University of Houston, 1990.
- Winnie, Michael Glenn**; Corpus Christi. B.S., Corpus Christi State University, 1990.

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## COLLEGE STATION

Texas A&M University is located in College Station, Texas. Bryan adjoins College Station, and the two cities have attained a combined total population of about 110,000. Bryan-College Station is located in east-central Texas in Brazos County between the Brazos and Navasota Rivers on the edge of the Gulf Coastal Plain.

Education is the largest industry in Bryan-College Station. The Texas A&M University System employs about 11,000 people in Brazos County. Other major employers include Westinghouse, Agency Records Control, and Alenco. For employment information, write the Texas Employment Commission, 801 East 29th Street, Bryan, TX 77801, or the Personnel Office, Texas A&M University.

Shopping in Bryan-College Station is available in a great variety of retail outlets. Both Bryan and College Station have shopping malls. Post Oak Mall in College Station is the largest in the area. In addition, there are numerous small shopping centers throughout both cities and stores in downtown Bryan.

Cultural activities in Bryan-College Station are organized by both Texas A&M University and the Brazos Arts Council. The Opera and Performing Arts Society at Texas A&M imports onto campus many types of entertainment, from light and grand opera to ballet and symphonies. A local theater group, a community orchestra and community singers, an Art League, and a nature museum also offer entertainment and educational programs. The Great Issues program at Texas A&M sponsors lectures by nationally known speakers. The Town Hall Series brings both popular and classical artists and entertainers to perform on campus.

Many recreational opportunities are available to participants of all ages. The two cities maintain 40 parks, six swimming pools, two golf courses, and numerous tennis courts. In addition, there are a number of private and University recreational facilities.

## TEMPLE

Temple, the largest city in Bell County, Texas, is located near the geographic and population center of Texas. Temple itself has a population of about 50,000. The Bell County (Killeen-Temple-Belton-Fort Hood) metropolitan area has a population of about 188,000. Temple is less than twenty miles from Fort Hood, Belton, Killeen, Lake Belton and Stillhouse Hollow Reservoir.

Medicine is the largest industry in Temple. Four local hospitals, Scott and White Memorial Hospital and Clinic, The Scott and White Santa Fe Center, The Olin E. Teague Veterans' Center, and King's Daughters Hospital provide over 1500 beds, and employ approximately 5,000 people. Other major employers in Temple include Mobil Chemical Company, Texas Instruments, Inc., McLane Company, Inc., Ralph Wilson Plastics, Inc., American Desk, Artco-Bell, the Santa Fe Railroad, and Western Auto.

Temple has a pleasant small town atmosphere in a region with Sunbelt-style growth. Public cultural facilities include the Temple Civic Theatre, the Azalee Marshall Cultural Activities Center, the Frank W. Mayborn Civic and Convention Center, and the Temple Public Library. Numerous churches, parks, lakes, adult education at Temple Junior College, and the Central Texas Orchestral Society offer Temple residents many cultural and educational opportunities.

**Texas A&M University College of Medicine**

Joe H. Reynolds Medical Building  
College Station, Texas 77843-1114

*Billy B. Rankin*  
Associate Dean for Student Affairs  
Joe H. Reynolds Medical Building  
Room 159  
(409) 845-7743  
*Gerald Meininger, Ph.D.*  
Coordinator of Graduate Studies  
Joe H. Reynolds Medical Building  
Room 113  
(409) 845-0370

**Texas A&M University**

College Station, TX 77843

*Office of the Registrar*  
Heaton Hall  
(409) 845-1031

*Fiscal Department*  
Coke Building  
(409) 845-8104

*A.P. Beutel University Health Center*  
Dr. Kenneth R. Dirks, Director  
(409) 845-1511

*Housing Office, Single On-Campus*  
101 YMCA Building  
(409) 845-4744

*Housing Office, Off-Campus*  
Department of Student Affairs  
Puryear Hall  
(409) 845-2261

*Housing Office, Married Student Housing*  
Box 117, University Mail Service-3365  
(409) 845-2261

*Student Financial Aid*  
The Pavilion  
(409) 845-3236

*Personnel Department*  
201 YMCA Building  
(409) 845-4141

*Student Activities Office*  
Student Group Sickness and Accident  
Insurance

The Pavilion  
(409) 845-1133

*Coordinator of Veterans and  
War Orphans Services*  
Ramp B, Hart Hall  
(409) 845-1637

**Scott and White Memorial Hospital and Clinic**

2401 South 31st Street  
Temple, Texas 76508

*T. Keller Matthews, III, M.D.*  
Assistant Dean for Student Affairs, Temple  
Office of Student Affairs, Temple  
The Alexander Building  
(817) 774-2111 ext. 2395  
*Gary Smith, Ed.D.*  
Director of Graduate Education  
Department of Graduate Medical Education  
The Alexander Building  
(817) 774-2111 ext. 2232

**Olin E. Teague Veterans' Center**

Temple, Texas 76501

Facilities Management Office, Student Affairs  
(817) 773-0513

**MCAT Information**

Application forms for the Medical College  
Admission Test are available in most premedical  
offices on major campuses. Application forms and  
manuals are also available from:

*The American College Testing Program*  
P.O. Box 414  
Iowa City, Iowa 52240

*MCAT Student Manual*  
The Association of American Medical  
Colleges

Office of Membership and Subscriptions  
One Dupont Circle, N.W., Suite 200  
Washington, D.C. 20036

### **Notice of Nondiscriminatory Policy**

The Texas A&M University Health Science Center, College of Medicine, in compliance with applicable federal laws and regulations, does not discriminate on the basis of race, color, national origin, sex, age, religion, handicap or status as a veteran in any of its policies, practices or procedures. This includes, but is not limited to admissions, employment, financial aid and educational services.

It is the goal of the Texas A&M University Health Science Center that its campus be accessible to the physically handicapped and free from unnecessary physical barriers.

Texas A&M does not discriminate on the basis of an individual's handicap and complies with Section 504 in its admissions, accessibility, treatment, and employment of students in its programs and activities. The designated 504 Coordinator for The Texas A&M University System is the Assistant Executive Director, System Human Resources Office, who is responsible for equal opportunity/affirmative action matters, telephone (409) 845-2026.

Texas A&M provides academic adjustments and auxiliary aids to students with handicapping conditions, as defined under the law, who are otherwise qualified to meet the institution's academic requirements. The office of Support Services for Students with Handicaps coordinates Texas A&M University's programs and efforts for the benefit of the individuals covered under the statute. For additional information, contact the office at (409) 845-1637.

The Texas A&M University Health Science Center is a component of the Texas A&M University System and is subject to the Rules and Regulations of the Board of Regents of the Texas A&M University System.









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