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COLLEGE of MEDICINE  
• BULLETIN •

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TEXAS A&M UNIVERSITY

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◻1990◻1992◻

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Joe H. Reynolds Medical Building, Room 113  
(409/845-0370)

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College Station, TX 77843

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COLLEGE *of* MEDICINE  
· ◻ B U L L E T I N ◻  

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TEXAS A&M UNIVERSITY  

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◻ 1990 ◻ 1992 ◻



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William E. Ward . . . . . *Associate Dean for Student Affairs*  
T. Keller Matthews, III. . . . . *Assistant Dean for Student Affairs — Temple*  
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Edwin A. Sammer, *Chief of Staff*

### **Department of Veterans Affairs Medical Center, Marlin**

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### **Department of Veterans Affairs Medical Center, Waco**

R. Tom Williams, *Director*  
William J. Wagner, *Chief of Staff*

**TEXAS A&M UNIVERSITY**  
**COLLEGE OF MEDICINE**  
**1990-1991 ACADEMIC CALENDAR**

The College of Medicine reserves the right to change the Academic Calendar at any time. Graduate students conform with M1 or M2 class schedules.

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

**Fall Term 1990**

August 13	Monday, registration and first day of classes for M-1 students
August 27	Monday, first day of classes for M-2 students.
November 16	Friday, last day of classes for M-1 and M-2 students
November 19-21	Monday, Tuesday, Wednesday, term final examinations
November 22- Dec 2	Thursday through Sunday, Thanksgiving holiday end of term break

**Winter Term 1990-91**

December 3	Monday, first day of classes for M-1 and M-2 students
December 20- Jan 2, 1991	Thursday through Wednesday, Christmas - New Year holiday
March 5	Tuesday, last day of classes for M-1 and M-2 students
March 7-9	Thursday, Friday, Saturday, term final examinations
March 10-17	Sunday through Sunday, end of term break

**Spring Term 1991**

March 18	Monday, first day of classes for M-1 and M-2 students
May 24	Friday, last day of classes for M-2 students
May 27-30	Monday through Thursday, term final examinations for M-2 students
June 7	Friday, last day of classes for M-1 students
June 10-13	Monday through Thursday, term final examinations for M-1 students



## Third Year Class Temple Campus

### Week Date (First Day)

1 . . . .	July 9, 1990
2 . . . .	July 16
3 . . . .	July 23
4 . . . .	July 30
5 . . . .	August 6
6 . . . .	August 13
7 . . . .	August 20
8 . . . .	August 27
<b>END OF 8 WEEKS CLERKSHIPS</b>	
9 . . . .	September 3
10 . . . .	September 10
11 . . . .	September 17
12 . . . .	September 24
<b>END OF 12 WEEKS CLERKSHIPS</b>	
13 . . . .	October 1
14 . . . .	October 8
15 . . . .	October 15
16 . . . .	October 22
<b>END OF 8 WEEKS CLERKSHIPS</b>	
17 . . . .	October 29
18 . . . .	November 5
19 . . . .	November 12
20 . . . .	November 19
21 . . . .	November 26
22 . . . .	December 3
23 . . . .	December 10
24 . . . .	December 17
<b>END OF 8 and 12 WEEKS CLERKSHIPS</b>	
25 . . . .	December 24 - Vacation Week
26 . . . .	December 31 - Vacation Week

### Week Date (First Day)

27 . . . .	January 7, 1991
28 . . . .	January 14
29 . . . .	January 21
30 . . . .	January 28
31 . . . .	February 4
32 . . . .	February 11
33 . . . .	February 18
34 . . . .	February 25
<b>END OF 8 WEEKS CLERKSHIPS</b>	
35 . . . .	March 4
36 . . . .	March 11
37 . . . .	March 18
38 . . . .	March 25
<b>END OF 12 WEEKS CLERKSHIPS</b>	
39 . . . .	April 1
40 . . . .	April 8
41 . . . .	April 15
42 . . . .	April 22
<b>END OF 8 WEEKS CLERKSHIPS</b>	
43 . . . .	April 29
44 . . . .	May 6
45 . . . .	May 13
46 . . . .	May 20
47 . . . .	May 27
48 . . . .	June 3
49 . . . .	June 10
50 . . . .	June 17
<b>END OF 8 AND 12 WEEKS CLERKSHIPS AND END OF ACADEMIC YEAR</b>	

## Fourth Year Class\* Temple Campus

Module	Week	Date (First Day)	Module	Week	Date (First Day)
I. (Optional)	1.	June 18, 1990	VII. (Optional)	27.	December 17
	2.	June 25		28.	December 24
	3.	July 2		29.	December 31
	4.	July 9		30.	January 7, 1991
II.	5.	July 16	VIII.	31.	January 14
	6.	July 23		32.	January 21
	7.	July 30		33.	January 28
	8.	August 6		34.	February 4
III.	9.	August 13	IX.	35.	February 11
	10.	August 20		36.	February 18
	11.	August 27		37.	February 25
	12.	September 3		38.	March 4
IV.	13.	September 10	X.	39.	March 11
	14.	September 17		40.	March 18
	15.	September 24		41.	March 25
	16.	October 1		42.	April 1
V.	17.	October 8	XI.	43.	April 8
	18.	October 15		44.	April 15
	19.	October 22		45.	April 22
	20.	October 29		46.	April 29
	21.	RESIDENCY SEARCH November 5-11			
VI.	22.	November 12	XII.	47.	May 6
	23.	November 19		48.	May 13
	24.	November 26		49.	May 20
	25.	December 3		50.	May 27
	26.	RESIDENCY SEARCH December 10-16	GRADUATION: June 1, 1991 FLEX EXAM - To Be Announced		

\* Ten modules, 40 weeks, required

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


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**1991-1992 ACADEMIC CALENDAR**

The College of Medicine reserves the right to change the Academic Calendar at any time. Graduate students conform with M1 or M2 class schedules.

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

**Fall Term 1991**

August 12	Monday, registration and first day of classes for M-1 students
August 26	Monday, first day of classes for M-2 students
November 15	Friday, last day of classes for M-1 and M-2 students
November 18-20	Monday, Tuesday, Wednesday, term final examinations
November 21- Dec 1	Thursday through Sunday, Thanksgiving holiday end of term break

**Winter Term 1991-92**

December 2	Monday, first day of classes for M-1 and M-2 students
December 21- Jan 5, 1992	Saturday through Sunday, Christmas - New Year holiday
March 3	Tuesday, last day of classes for M-1 and M-2 students
March 5-7	Thursday, Friday, Saturday, term final examinations
March 8-15	Sunday through Sunday, end of term break

**Spring Term 1992**

March 16	Monday, first day of classes for M-1 and M-2 students
May 22	Friday, last day of classes for M-2 students
May 25-28	Monday through Thursday, term final examinations for M-2 students
June 5	Friday, last day of classes for M-1 students
June 8-11	Monday through Thursday, term final examinations for M-1 students

## Third Year Class Temple Campus

**Week Date (First Day)**

1 . . . . July 8, 1991  
 2 . . . . July 15  
 3 . . . . July 22  
 4 . . . . July 29  
 5 . . . . August 5  
 6 . . . . August 12  
 7 . . . . August 19  
 8 . . . . August 26

**END OF 8 WEEKS CLERKSHIPS**

9 . . . . September 2  
 10 . . . . September 9  
 11 . . . . September 16  
 12 . . . . September 23

**END OF 12 WEEKS CLERKSHIPS**

13 . . . . September 30  
 14 . . . . October 7  
 15 . . . . October 14  
 16 . . . . October 21

**END OF 8 WEEKS CLERKSHIPS**

17 . . . . October 28  
 18 . . . . November 4  
 19 . . . . November 11  
 20 . . . . November 18  
 21 . . . . November 25  
 22 . . . . December 2  
 23 . . . . December 9  
 24 . . . . December 16

**END OF 8 and 12 WEEKS CLERKSHIPS**

25 . . . . December 23 - Vacation Week  
 26 . . . . December 30 - Vacation Week

**Week Date (First Day)**

27 . . . . January 6, 1992  
 28 . . . . January 13  
 29 . . . . January 20  
 30 . . . . January 27  
 31 . . . . February 3  
 32 . . . . February 10  
 33 . . . . February 17  
 34 . . . . February 24

**END OF 8 WEEKS CLERKSHIPS**

35 . . . . March 2  
 36 . . . . March 9  
 37 . . . . March 16  
 38 . . . . March 23

**END OF 12 WEEKS CLERKSHIPS**

39 . . . . March 30  
 40 . . . . April 6  
 41 . . . . April 13  
 42 . . . . April 20

**END OF 8 WEEKS CLERKSHIPS**

43 . . . . April 27  
 44 . . . . May 4  
 45 . . . . May 11  
 46 . . . . May 18  
 47 . . . . May 25  
 48 . . . . June 1  
 49 . . . . June 8  
 50 . . . . June 15

**END OF 8 AND 12 WEEKS CLERKSHIPS  
AND END OF ACADEMIC YEAR**

## Fourth Year Class\* Temple Campus

Module	Week	Date (First Day)	Module	Week	Date (First Day)
I. (Optional)	1.	June 24, 1991	VII. (Optional)	27.	December 23
	2.	July 1		28.	December 30
	3.	July 8		29.	January 6, 1992
	4.	July 15		30.	January 13
II.	5.	July 22	VIII.	31.	January 20
	6.	July 29		32.	January 27
	7.	August 5		33.	February 3
	8.	August 12		34.	February 10
III.	9.	August 19	IX.	35.	February 17
	10.	August 26		36.	February 24
	11.	September 2		37.	March 2
	12.	September 9		38.	March 9
IV.	13.	September 16	X.	39.	March 16
	14.	September 23		40.	March 23
	15.	September 30		41.	March 30
	16.	October 7		42.	April 6
V.	17.	October 14	XI.	43.	April 13
	18.	October 21		44.	April 30
	19.	October 28		45.	April 27
	20.	November 4		46.	May 4
	21.	RESIDENCY SEARCH November 11-17			
VI.	22.	November 18	XII.	47.	May 11
	23.	November 25		48.	May 18
	24.	December 2		49.	May 25
	25.	December 9		50.	June 1
	26.	RESIDENCY SEARCH December 16-22	GRADUATION: June 6, 1992 FLEX EXAM - To Be Announced		

\* Ten modules, 40 weeks, required

## 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.



Photo by: Phelan M. Ebenhack

## TEXAS A&M UNIVERSITY COLLEGE OF MEDICINE (Correct as of December 1, 1989)

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.

**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*. (1979, 1981) 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., University of Buffalo Medical School, 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, Philip R.**, *Clinical Assistant Professor of Internal Medicine* (1978, 1981) B.M., Curtis Institute of Music, 1966; M.D., Baylor College of Medicine, 1971.

**Allen, Duane M.**, *Assistant Professor of Internal Medicine*. (1985) B.S., Western Michigan University, 1950; M.D., Wayne State University College of Medicine, 1959.

**Allen, William R.**, *Associate Professor of Pediatrics*. (1982) 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.

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

**Andrew, William F.**, *Assistant Professor of Surgery*. (1989) M.D., Washington University Medical School, Missouri, 1945.

**Androes, LeRoy I.**, *Associate Professor of Psychiatry and Behavioral Science*. (1983) B.A., Bethel College, 1950; M.S., Wichita University, 1954; M.D., University of Kansas School of Medicine, 1958.

**Arko, Frank R.**, *Associate Professor of Surgery*. (1986) B.A., University of Minnesota, 1956; B.S., 1959; M.D., University of Minnesota Medical School—Minneapolis, 1959.

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

**Ashcraft, Ray**, *Associate Professor of Surgery*. (1987) 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; M.D., University of Texas Medical Branch at Galveston, 1980; Ph.D., University of Texas Medical Branch at Galveston, 1984.
- Baden, Wayne F.**, *Clinical Professor of Obstetrics and Gynecology*. (1981) 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.
- Baker, Dudley P.**, *Professor and Head of Obstetrics and Gynecology*. (1977, 1981) B.A., Southern Methodist University, 1959; M.D., Louisiana State University, 1962.
- Ballard, Stephen T.**, *Adjunct Visiting Professor of Medical Physiology*. (1989) B.S., North Carolina State University, 1976; M.S., University of Kentucky, 1981; Ph.D., University of North Carolina, 1989.
- Bame, Shirley I.**, *Assistant Professor of Family and Community Medicine*. (1984) B.S.N., University of Michigan School of Nursing, 1969; M.S., Boston University School of Nursing, 1972; Ph.D., University of Michigan, 1985.
- Bandi, Zoltan L.**, *Associate Professor of Pathology and Laboratory Medicine*. (1989) B.A., University of Minnesota, 1962; M.S., 1967; Ph.D., 1969.
- Barnes, Robert N.**, *Professor of Internal Medicine*. (1977, 1983) B.S., University of Oklahoma, 1950; 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.
- Barton, David D.**, *Assistant Professor of Internal Medicine*. (1986) B.S., University of Texas at Austin, 1978; M.D., University of Texas Medical School at Houston, 1982.
- Bassel, Maria E.**, *Assistant Professor of Internal Medicine*. (1979, 1984) B.S., Institute of Technology, 1950; M.D., University of Nuevo Leon, 1956.
- Basson, Susan**, *Associate Professor of Pathology and Laboratory Medicine, of Medical Biochemistry and Medical Genetics, and of Medical Microbiology and Immunology*. (1982, 1987) B.S., University of Pittsburgh, 1969; M.A., State University of New York at Buffalo, 1973; Ph.D., University of Pittsburgh, 1980.
- Bauserman, Steven C.**, *Professor of Pathology and Laboratory Medicine*. (1986) B.A., University of Iowa, 1959; M.D., University of Iowa College of Medicine, 1963.
- Bean, Jolene D.**, *Assistant Professor of Surgery*. (1985) M.D., Friedrich Wilhelm University of Bonn (West Germany), 1979; Sc.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 Tech University, 1969; M.D., University of Texas Medical School at San Antonio, 1973.
- Belssner, Robert S.**, *Assistant Professor of Pathology and Laboratory Medicine*. (1987) B.S., Texas Tech University, 1975; Ph.D., Rice University, 1979; M.D., University of Texas Medical School at San Antonio, 1984.
- Bellens, Edward E.**, *Associate Professor of Surgery*. (1979, 1981) M.D., University of Louvain (Belgium), 1959.
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- Smith, Ed R.**, *Instructor in Radiology*. (1986) B.S., Louisiana State University - Baton Rouge, 1971; Ph.D., Louisiana State University, 1973; M.D., Louisiana State University Medical Branch - Shreveport, 1984.

- Smith, Elvin E.**, *Professor of Medical Physiology*. (1975, 1976) 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 School at Galveston, 1985.
- Smith, Jerome H.**, *Professor of Pathology and Laboratory Medicine*. (1984) B.S., University of Nebraska, 1960; M.S., 1962; M.D., 1963; M.Sc.Hyg., Harvard School of Public Health, 1969.
- 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.**, *Associate Professor of Surgery*. (1981, 1986) B.A., Dartmouth College, 1970; M.D., Loyola University School of Medicine, 1974.
- Somerville, Stephen P.**, *Associate Professor of Pathology and Laboratory Medicine*. (1984, 1987) M.D., University of Texas Southwestern Medical School, 1976.
- 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 Sciences*. (1989) B.S., Howard University, 1962; 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.
- Stanley, William G.**, *Assistant Professor of Internal Medicine*. (1985) B.S., Kansas State University, 1972; D.O., Kansas City College of Osteopathic Medicine, 1977.
- 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.
- Starr, John C.**, *Professor and Head of Internal Medicine*. (1977, 1981) 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.
- 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) M.A., McMurray College, 1953.
- Stenstra, Kathleen A.**, *Assistant Professor of Family and Community Medicine*. (1985) B.S., Iowa State University, 1979; M.D., University of Iowa College of Medicine, 1982.
- Stigler, Del B.**, *Clinical Assistant Professor of Family and Community Medicine*. (1979, 1981) 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.D., 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) A.B., Brooklyn College, 1942; M.D., State University of New York College of Medicine, 1950.
- \***Strayhorn, John M.**, *Instructor in Internal Medicine.* (1988) B.S., Baylor University, 1982; M.D., Texas A&M University College of Medicine, 1986.
- Struck, Douglas K.**, *Associate Professor of Medical Biochemistry and Medical 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.
- Stutes, Susan E.**, *Assistant Professor of Family and Community Medicine.* (1986) B.A., University of Colorado at Colorado Springs, 1977; M.D., University of Colorado Medical School, 1981.
- 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.
- Sundin, Paul W.**, *Associate Professor of Family and Community Medicine.* (1981) B.A., La Sierra College, 1951; M.D., Loma Linda University School of Medicine, 1955; M.P.H., University of Michigan School of Public Health, 1967.
- Surratt, Steve G.**, *Assistant Professor of Surgery.* (1989) B.S., Stephen F. Austin State University, 1979; M.D., University of Texas Medical School at Houston, 1987.
- 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.
- 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 University, 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**, *Associate Professor of Internal Medicine.* (1979, 1981) B.S., University of Texas at Austin, 1966; M.D., Baylor College of Medicine, 1970.
- Thacher, Scott M.**, *Assistant Professor of Medical Biochemistry and Medical 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.
- Thomas, Barbara C.**, *Lecturer in Medical Sciences Library.* (1980) B.S., University of Delaware, 1957; M.S.L.S., Catholic University of America, 1974.
- 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.
- Thorpe, Kellee A.**, *Instructor in Surgery.* (1985) B.S., North Texas State University, 1980; M.S., 1982.
- Todd, Frederick D. II**, *Assistant Professor of Surgery.* (1988) B.S., University of Texas at Austin, 1975; M.D., University of Texas Southwestern Medical School, 1979.
- Toiclu, Patricia E.**, *Assistant Professor of Psychiatry and Behavioral Science.* (1989) B.A., Chestnut Hill College - Pennsylvania, 1979; M.A., Loyola College - Maryland, 1982; Psy.D., Baylor University, 1987.

- Tomlinson, John A.**, *Clinical Assistant Professor of Pathology and Laboratory Medicine*. (1987) B.S., University of Wisconsin at Parkside, 1972; M.D., University of Wisconsin Medical School, 1976.
- 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 at Austin, 1977; M.D., University of Texas Medical School at Houston, 1982.
- Tripathy, Kumud S.**, *Clinical Assistant Professor of Internal Medicine*. (1981) 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.**, *Associate Professor of Internal Medicine*. (1979, 1981) B.S., West Virginia University, 1962; M.D., West Virginia Medical School, 1966.
- Trzeciakowski, Jerome P.**, *Associate Professor of Medical Pharmacology and Toxicology*. (1980, 1986) B.S., Lehigh University, 1974; Ph.D., University of Florida, 1978.
- Tseng, Stephen S.**, *Clinical Assistant Professor of Internal Medicine*. (1985) B.S., Rice University, 1978; M.D., University of Texas Southwestern Medical School, 1982.
- 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.
- 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 at Austin, 1968; Ph.D., University of Texas Medical Branch at Galveston, 1973; M.D., 1973.
- Villamaria, Frank J.**, *Assistant Professor of Surgery*. (1989) B.S., Pittsburg State University - Kansas, 1977; M.D., University of Kansas School of Medicine, 1980.
- Wagner, Jackson W.**, *Professor of Anatomy*. (1974, 1978) A.B., Fresno State College, 1957; Ph.D., University of California, San Francisco, 1960; M.D., Baylor College of Medicine, 1973.
- 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*. (1979, 1981) B.S., Bowling Green State University, 1957; M.D., Ohio State University College of Medicine, 1961.
- Ward, William E.**, *Associate Dean for Student Affairs, College of Medicine, and Professor of Medical Physiology*. (1975) A.B., Ohio University, 1950; A.M., Duke University, 1952; Ph.D., Kent State University, 1967.
- Wardell, Ferman N.**, *Instructor in Surgery*. (1986) B.S., University of Texas at Austin, 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 and Holder of the Joseph H. Shelton Professorship*. (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.
- Weeks, Craig D.**, *Assistant Professor of Surgery*. (1986) B.S., University of Nebraska, 1969; M.D., University of Nebraska College of Medicine, 1971.
- 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.
- 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 - 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.
- Welter, Timothy**, *Assistant Professor of Internal Medicine*. (1988) B.S., University of Wisconsin, 1981; M.D., University of Wisconsin Medical School, 1985.
- \*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.
- \*Wick, Lori Ann**, *Instructor in Pediatrics*. (1989) B.S., Cornell University, 1981; M.S., Texas A&M University; M.D., Texas A&M University College of Medicine, 1987.
- 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.
- Wilson, Van G.**, *Assistant Professor of Medical Microbiology and Immunology*. (1983) 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, 1970; Ph.D., University of Utah College of Medicine, 1974; M.D., Washington University School of Medicine, 1977.

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

**Wolinsky, Fredric D.**, *Professor of Sociology and Humanities in Medicine*. (1985, 1987) B.A., Friends University, 1972; M.A., Drake University, 1974; Ph.D., Southern Illinois University, 1977.

**Wright, Steven M.**, *Assistant Professor of Radiology*. (1989) B.S., University of Illinois, 1980; M.S., University of Illinois, 1981; Ph.D., University of Illinois, 1984.

**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.

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

**Yealy, Donald**, *Assistant Professor of Internal Medicine*. (1989) B.S., Villanova, 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.

**Zawieja, David C.**, *Assistant Research Scientist in Medical Physiology*. (1986) B.S., University of Wisconsin, 1978; Ph.D., Medical College of Wisconsin, 1986.

# ■ 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 6,500 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.

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.

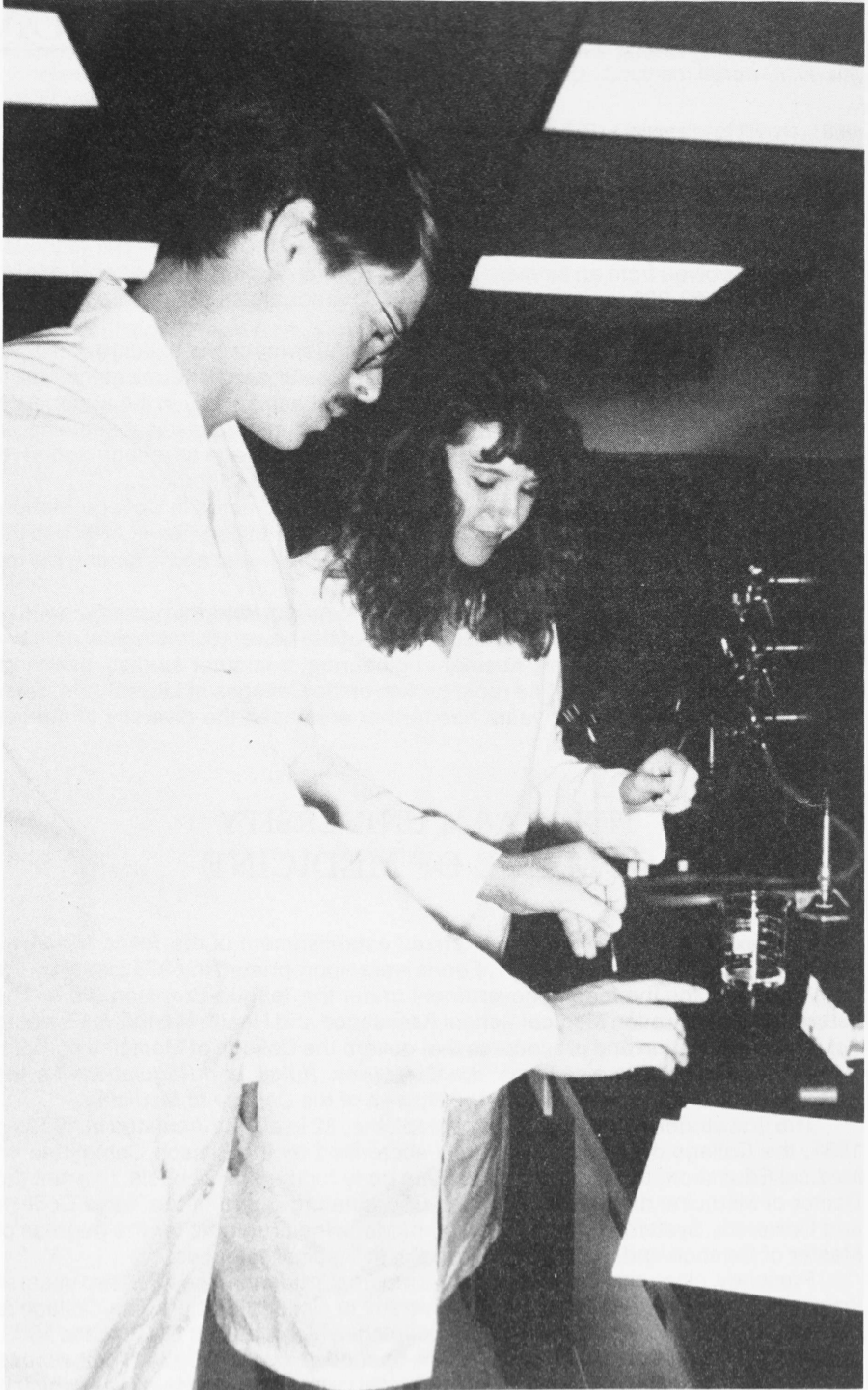
Texas A&M's traditional strengths lie in engineering, veterinary medicine, and agriculture. Furthermore, it is a pioneer in many of the newer technological areas — biotechnology, space research, nuclear engineering, computer studies, oceanography and marine resources. The rapid growth of the Colleges 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.

Presently, class size is stabilized at 48 medical students. 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. Six of the nine classes that have graduated from the College have achieved the highest composite score among all Texas medical schools on the Federated Licensing Examination (FLEX). The other three classes ranked second overall. 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 with 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 U. S. Army Darnall Community 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. Students also spend a four week clerkship with a family medicine physician in a nonurban area of Texas.

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 Texas A&M University and any of its sponsored programs is open to qualified individuals regardless of race, color, religion, sex, age, national origin, or educationally unrelated handicaps.

The selection of students for admission to the College of Medicine is made by an Admissions Committee. The College of Medicine Office of Student Affairs serves as administrative staff for the committee. Preference in selection is given to legal residents of Texas, as defined by the Registrar of Texas A&M. Under exceptional circumstances, admission may be deferred up to one year. Individuals who believe they might qualify for deferred admission should contact the Associate Dean for Student Affairs.

No transfer students or students with advanced standing are considered for admission to the Doctor of Medicine degree program.

The College of Medicine reserves the right to waive certain policies and requirements if unusual circumstances warrant.

### Prerequisites

To be considered for admission, an applicant must have completed a minimum of 60 semester hours in an accredited U.S. educational institution. No preference is given to any course of study beyond the prerequisites, and all students are encouraged to broaden their backgrounds in the humanities and gain exposure to the history and culture of man. The following courses are required:

Course	Semester Hours
Inorganic 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 biology course	3 hours
General physics (with laboratory)	8 hours or 1 year
Calculus	3 hours
English (grammar and composition)	6 hours or 1 year

### Sophomore Admission

The College of Medicine will consider for admission outstanding sophomores who have completed at least 60 semester hours of undergraduate work, including the prerequisites for admission. To be considered, a sophomore candidate must demonstrate outstanding personal qualities and a highly competitive academic and Medical College Admission Test (MCAT) record. Sophomores are interviewed and admitted after their spring semester when their record is complete.



## **The Application Process**

Admission is granted only for the beginning of each academic year. Applications must be submitted between June 1 and November 1, 1990, for admission to the College of Medicine in the 1991-1992 academic year. Applications must be submitted between June 1 and November 1, 1991, for admission to the College of Medicine in 1992-1993. Application forms may be obtained from the Office of Student Affairs. To be considered for admission to the College of Medicine, an applicant must submit the following:

- 1) A properly completed application form;
- 2) A personal check for \$35 to pay the application fee;
- 3) A complete and official transcript from each college or university the applicant has attended, including a record of courses in progress and summer school work. Sophomores must submit a second transcript after their spring semester;
- 4) Scores from the New Medical College Admissions Test (MCAT). The MCAT must have been taken within three years prior to application. The MCAT is administered twice a year, usually in September and April. Sophomores may postpone the MCAT until spring and submit their scores then;
- 5) A composite evaluation from a premedical advisory committee or letters of recommendation from at least three faculty members.

Each applicant has the responsibility to ensure that his or her application is complete and accurate. An application for entrance is valid only for a specified academic year. An unsuccessful candidate who desires to be considered for a subsequent year must submit a new application.

## **Interviews**

The Admissions Committee screens the applications and invites applicants whom members of the committee deem competitive to two-day interview sessions in College Station and Temple. Interviews are by invitation only. Each applicant has three interviews; at least two of the interviews are conducted by members of the Admissions Committee. The third interview may be conducted by a faculty member not on the Admissions Committee. The purpose of interviews is to allow members of the Admissions Committee to meet applicants and acquaint them with the faculty, students, and facilities of the College of Medicine. Students visit both the College Station and Temple campuses during the interview sessions. The interview gives an applicant the opportunity to describe factors not on his or her academic record that indicate experiences, talents, or character traits desirable in a physician.

## **Letters of Acceptance**

The first letters of acceptance are issued on November 15. Candidates are given ten days to respond. The admissions process usually continues from November until the summer, when the final letters of acceptance have been issued and returned. All offers to candidates are binding on the College of Medicine.

## **Selection Factors**

The Admissions Committee uses a number of criteria to evaluate applicants — grade averages, Medical College Admission Test scores, college preprofessional committee evaluations or letters of recommendation, personal interviews, extracurricular activities, demographic and disadvantaged backgrounds, unique work experiences, and physical and emotional health. Personal character of the highest order is required, along with evidence of strong motivation and academic accomplishment. The committee strives to consider every facet of an applicant's background that may indicate potential for success in medical school.

## ADMISSION FOR GRADUATE STUDENTS

Admission to Texas A&M University and any of its sponsored programs is open to qualified individuals regardless of race, color, religion, sex, age, national origin or educationally unrelated handicaps.

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:

<b>Course</b>	<b>Semester Hours</b>
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

Admission is granted to students without regard to their financial status. Students who need financial assistance can apply for scholarships or loans from Texas A&M University scholarship funds, private organizations, federal and state funds, or commercial lenders. In addition, the United States Department of Defense offers scholarships with a service obligation. For specific information, consult the *Financial Aid Opportunities for Medical Students* booklet published by the Office of Student Affairs.

Graduate student assistantships and fellowships are available from the Office of the Associate Dean for Graduate Studies and Research. In addition, some assistantships are funded by the research grants of individual faculty members. Texas A&M University also participates in the National Science Foundation fellowship and traineeship programs.

Short-term emergency loans up to \$250 are available to medical students from the College of Medicine Office of Student Affairs. Short-term loans up to \$1,000 are available from the Texas A&M University Office of Financial Aid.

Scholarships, loans, and awards for Texas A&M University medical students are as follows:

### Scholarships

American Association of University Women Educational Foundation Fellowship  
 American Medical Association — Education and Research Fund  
 Arthur T. Ippen Medical Scholarship  
 Charlotte M. Tompkins Scholarship Fund  
 Clark A. and Pauline Mathews '27 Scholarship Fund  
 College of Medicine Scholarship  
 Donald Niederer Scholarship in Medicine  
 Dr. Sidney Conolly Class of '39 Scholarship  
 Exceptional Financial Need Scholarship  
 James H. and Minnie M. Edmonds Educational Foundation  
 Joseph B. Collerain Endowment Scholarship  
 The Joseph Collins Foundation  
 Manila Reynolds Scholarship in Medicine  
 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  
 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  
Dr. May Owen Trust Fund  
Ella Kate and Wallace Ralston Medical Student Loan  
Franklin Lindsay Student Aid Fund  
Health Education Assistance Loan (HEAL) Program  
Minnie Stevens Piper Loan Program  
Perkins Loan Program  
Pasadena Area A&M Mothers' Club Emergency Loan Program  
Texas Guaranteed Student 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



**Scott and White Memorial Hospital and Clinic**

## EXPENSES FOR MEDICAL STUDENTS

The expenses listed in this section for 1990-1991 are 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 are calculated for a typical medical student enrolled in the standard College of Medicine curriculum. Nonresident tuition is four times the resident tuition.

Payments for tuition and fees are due during the registration periods scheduled before the beginning of each term. Academic costs are due at registration for fall, winter, and spring terms. 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.

Refund of tuition and fees to students who officially withdraw from Texas A&M University is prorated in conformity with the withdrawal schedule published in the *Texas A&M University Undergraduate Catalog*.

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	\$1,821.00	\$1,821.00	\$1,821.00	\$ 5,463.00
Fees	285.00	285.00	285.00	855.00
Books and Supplies	465.00	465.00	465.00	1,395.00
Total Academic Costs	\$2,571.00	\$2,571.00	\$2,571.00	\$ 7,713.00

### Estimated Room and Board

Total	\$2,000.00	\$2,000.00	\$2,000.00	\$ 6,000.00
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Estimated Annual Cost for Residents in Years 1 and 2 \$13,713.00

### Estimated Academic Costs

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

	Fall Term	Spring Term	Annual Total
*Tuition (statutory amount regardless of course load)			
Resident	\$2,731.50	\$2,731.50	\$ 5,463.00
Fees	150.00	150.00	300.00
Books and Supplies	525.00	525.00	1,050.00
Total Academic Costs	\$3,406.50	\$3,406.50	\$ 6,813.00

### 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	\$3,681.00	\$3,681.00	\$ 7,362.00
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Estimated Annual Cost for Residents in Years 3 and 4 \$14,175.00

## 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, Building Use Fee,  
Student Center Complex Fee, Health Center Fee, P.E. Service Fee,  
Laboratory Fee**

Fall, Spring or 10-Week Summer Semester

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

**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.

**Yearbook:** Yearbook charges are refundable in full during the semester in which payment is made. Thereafter, no refunds will be made on cancelled orders. Yearbooks must be picked up during the academic year in which they are published.

Students who will not be on campus when the yearbooks are published, usually by September 1, must pay a mailing and handling fee. Yearbooks will not be held, nor will they be mailed, without payment of the mailing and handling fee.

Refunds will not be made on books not picked up within one semester of the publication date.

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

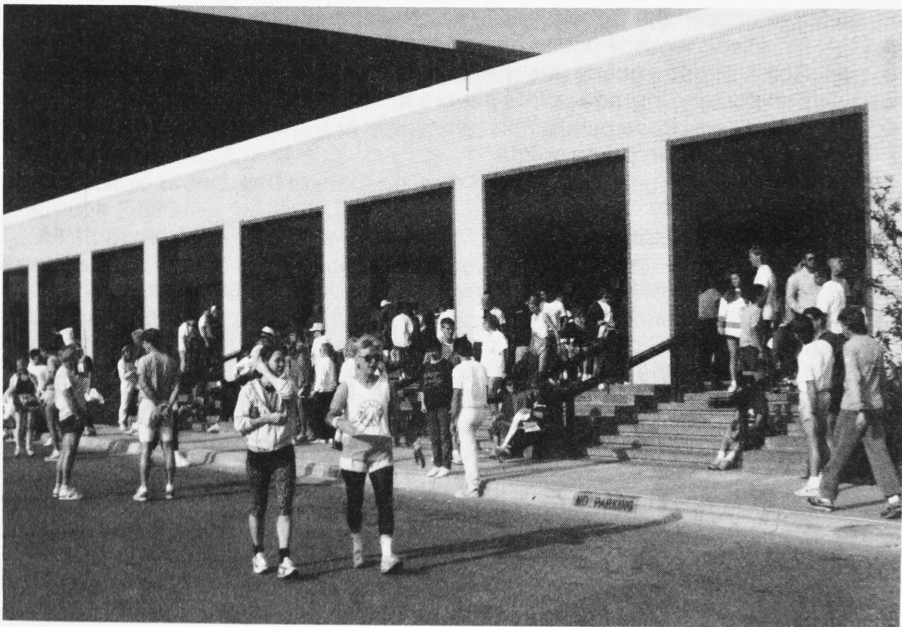
## UNPAID CHECKS

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 \$15. 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.



Participants in the College of Medicine FUN RUN gather in front of the medical complex.

# 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 maintain to remain in good academic standing is 2.00.

Grades are issued at the end of each quarter on the College Station campus, and at the end of each completed module or clerkship on the Temple campus.

Medical student performance is monitored by the College Promotions Committees I, II, and III, standing committees composed of faculty members and deans. Promotions Committee I monitors student performance in the first and second years; Promotions Committee II, in the third and fourth years. Promotions Committee III recommends to the College of Medicine Academic Council the students who have satisfactorily completed the requirements for the M.D. degree; it also reviews disciplinary matters. During a term, the committees may recommend special tutoring, counseling, or remedial work for individuals where indicated. At the end of an academic term, each committee recommends student advancement, conditional advancement, retention, or dismissal.



## DEGREE INFORMATION

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

The College of Medicine Office of Student Affairs routinely submits for its students the necessary forms for the Bachelor of Science and Doctor of Medicine Degrees and collects the diploma fees during registration. The Office of Student Affairs also reports student grades pertaining to graduation with honors to the Office of the Registrar. Students do have the responsibility to settle all financial obligations to the University not later than noon on the Thursday preceding commencement day.

### The Bachelor of Science Degree

The Bachelor of Science degree is awarded to qualified medical students upon satisfactory completion of University requirements and the first six quarters of courses in the medical curriculum. The Bachelor of Science degree is governed by Texas A&M University regulations and core curriculum requirements.

The University requires the following courses in addition to the College of Medicine prerequisites discussed in the section on admissions:

Hist. 105, 106, 326 or equivalent	6 semester hours
Pol.S. 206, 207 or equivalent	6 semester hours
P.E. 199	4 semester hours

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 coursework 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.

## CURRICULUM

### **The Doctor of Medicine Degree**

The Doctor of Medicine degree requires a minimum of four years of study. The Basic Science years of the program are taught in the Joe H. Reynolds Medical Building on the Texas A&M University campus in College Station. The Clinical Science years take place on the Temple campus at the Olin E. Teague Veterans' Center and Scott and White Memorial Hospital and Clinic.

### **Curricular Goal/Objectives:**

The curricular goal of the College of Medicine is to provide a curriculum and learning environment through which students can become competent, compassionate physicians with an active knowledge base, the ability to use that knowledge to solve problems, professional skills, a commitment to and skills for career-long learning, and sensitivity to the world of the patient.

The curricular objectives to accomplish the goal address knowledge base, problem solving, perpetual learning, professional skills, attitudes/behavior, and leadership in medicine.

The curriculum is oriented along classic departmental lines with a high degree of integration between courses.

The Curriculum Committee, composed of the deans of the College and faculty members and students appointed by the Dean, designs the curriculum of the College, maintains a continuous review of the course of study in medicine, and makes appropriate revisions.

The basic science years' curriculum include courses in anatomy, biochemistry, physiology, pathology, pharmacology, microbiology, humanities in medicine, interviewing skills, physical diagnosis; introductory courses in internal medicine, obstetrics and gynecology, pediatrics, and psychiatry; and a family medicine preceptorship.

The clinical curriculum includes courses in radiology, medical jurisprudence, electrocardiography, and clerkships in internal medicine, surgery, pediatrics, obstetrics and gynecology, psychiatry, neurology, and family medicine. The final clinical year includes selectives and electives which students choose from an extensive curricular offering. Students usually spend some time off-campus during the last year of study.

The College of Medicine is conducting an in-depth study of the curriculum. Therefore ongoing modifications of the curriculum and calendar will occur. The table on page 57 reflects the curriculum as of 1989.

### **Student Research Opportunities**

Many departments in the College of Medicine offer students opportunities for independent research and to join faculty research teams. All departments offer a research elective. Fourth year students who choose a research elective may engage in clinical or basic science research on either campus. Students who are interested should consult the Student Affairs Office, individual faculty members or the departmental offices.

### **Flexible Curriculum Option**

The curriculum provides a Flexible Curriculum Option for the Basic Science years. This option includes the content of the usual two Basic Science years extended over three years with the addition of other medical courses, research, or courses on the University campus.

Students who would benefit from the Flexible Curriculum Option include students entering after two undergraduate years and desiring to complete an undergraduate non-medical science degree, students desiring to complete an additional undergraduate or graduate degree, students desiring academic enrichment opportunities of a University, and students desiring to pursue a Medical Leadership degree program.

### Professional Medical Curriculum

FIRST YEAR	Hours				
	Lecture	Conference/ Small Group	Lab	Other	Total
REQUIRED COURSES					
—Gross Anatomy and Embryology	72		120		192
—Microscopic Anatomy	48		48		96
—Neuroanatomy	60		42		102
—Biochemistry and Genetics	106	28		34	168
—Physiology	138	2		22	162
—Humanities in Medicine	23	23		23	69
—Behavioral Science	36				36
—Introduction to Patients		22			22
—Physical Diagnosis	24		24		48
—Topics in Medicine (Biostatistics, Epidemiology, Sociology, Economics)	48				48
<b>TOTAL</b>	<b>555</b>	<b>75</b>	<b>234</b>	<b>79</b>	<b>943</b>

### SECOND YEAR

REQUIRED COURSES					
—Microbiology and Immunology	115	16	33	6	170
—Pathology and Laboratory Medicine	132	11	88	34	265
—Introduction to Clinical Psychiatry	50				50
—Pharmacology and Toxicology	100	30			130
—Introduction to Obstetrics and Gynecology	23	8			31
—Introduction to Pediatrics	33				33
—Introduction to Clinical Medicine	134				134
—Clinical Preceptorship				102	102
<b>TOTAL</b>	<b>587</b>	<b>65</b>	<b>121</b>	<b>142</b>	<b>915</b>

### THIRD AND FOURTH YEARS

REQUIRED CLERKSHIPS	Weeks
—Internal Medicine	12
—Surgery	12
—Pediatrics	8
—Obstetrics and Gynecology	8
—Psychiatry	8
—Family Medicine	4
—Neurology	4
—Electives and Selectives	32

### **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 coursework.

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 coursework and research.

The Ph.D. program requires a minimum of 96 semester hours, at least 60 hours of which are taken in formal course work and 30 hours in formal research and dissertation work. To ensure the multidisciplinary nature of the program, each student is required to complete a minimum of 28 semester hours in a core program of courses from at least four discipline areas.

The core courses requirement is flexible. At least 15 credit hours must be core courses in the medical sciences curriculum. Courses taken elsewhere that are equivalent to core courses in concept can be substituted for a maximum of 13 credit hours in 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 for 3-5 credits 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, 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. The academic year for graduate study is 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.

## **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, pathology, pediatrics, obstetrics and gynecology, diagnostic radiology, family practice and internal medicine. The Department of Internal Medicine offers fellowship training in four subspecialties: gastroenterology, cardiology, pulmonary medicine, and endocrinology and metabolism.

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

## 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. Students also serve on temporary committees where their advice is needed.

The Texas Aggie Medical Student Association is the recognized student governing organization. The Executive Committee 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**

To supplement the services provided by the health center, students are strongly encouraged to buy student group health insurance or retain coverage through their parents' policies. Texas A&M University offers a sickness and accident insurance policy. In addition, the American Medical Student Association offers a group health insurance plan to its members.

Students in Temple are strongly encouraged to continue their health and accident insurance coverage. Scott and White Memorial Hospital does not provide professional courtesy for hospitalization costs. Staff physicians routinely carry health insurance for themselves and their families.

### **Liability Insurance**

Medical students are required to purchase a professional liability insurance policy. An appropriate policy is available during registration. Students serving clinical clerkships at Veterans Administration Hospitals are given personnel appointments without compensation, which provides professional liability coverage under the Federal Tort Claims Act.

### **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 845-1651, 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.

Records of student counseling sessions with College of Medicine counselors are strictly confidential and will not become part of the student's record. Students desiring professional or personal help from College of Medicine counselors should consult the *Texas A&M University College of Medicine Student Handbook and Addendum to Texas A&M University Regulations* for the counselors' names and phone numbers.

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

William E. Ward, Ph.D., Associate Dean for Student Affairs, 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.

## 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.** The 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 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 14 regional clinics in Temple, Killeen, McGregor, Moody, Hewitt, Waco, Gatesville, Caldwell, 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 on First Street.

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. Modernizing 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 began in early 1987. Completion of the project is expected sometime in 1989. 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 totaled more than 10,000 in 1986, and the outpatient clinic logged more than 100,000 visits. 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 geriatric 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 U. S. Army Darnall 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 united in 1976 to form the Texas A&M University Consortium of Medical Libraries. The consortium libraries share an integrated library system that provides on-line catalogs to library or remote users in College Station, Temple, or elsewhere. This system is located and maintained on the College Station campus. Consortium users also continue to use the Union List of Serials for journal information. Materials have been shared within the consortium via high speed telefacsimile transmission since 1981.

The reference departments of the libraries within the consortium offer on-line database literature search service to students, faculty members, and 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. The consortium sponsors clinical librarian services for physicians and students.

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

The Medical Sciences Library at Texas A&M is adjacent to the Joe H. Reynolds Building of the College of Medicine. The library itself occupies 43,500 net square feet and has the capacity to house 110,000 bound volumes. Currently it holds approximately 81,000 bound journals and books and 29,200 microform volumes. The Medical Sciences Library subscribes to 1973 serial titles at this time. The library supplements its collection by way of rapid loaning and borrowing based on local, regional, and national reciprocal agreements. Special attention is given to developing collections in ethnic medicine, bioethics, and geriatrics. The Medical Sciences Library continues to develop and offer remote access capabilities for all users by way of dial in, dedicated line, and port selector access to its electronic resources. Most recently the Medical Sciences Library has provided local access to databases through use of compact disks and is currently investigating ways to provide dial in, remote, multi-user access to the Medline database on compact disk.

### **Learning Resources Unit**

The Learning Resources Unit occupies 6,100 square feet of the first floor of the Medical Sciences Library Building. The unit houses approximately 2,000 self-assisted instructional audiovisual programs and 1,500 basic medical text and reference books in an open stack system. The LRU provides eighteen study carrels with video, slide and audiocassette playback equipment and eight rooms, containing chalkboards and audiovisual playback equipment, for group study. Two binocular microscopes, nine microcomputers with diagnostic, course review and wordprocessing software, two heart sound simulators, models, a test file and copy machine are also available for student and faculty use. The LRU is open 97 hours per week with study facilities restricted to use by students and faculty of the College of Medicine.

### **Temple Campus Libraries**

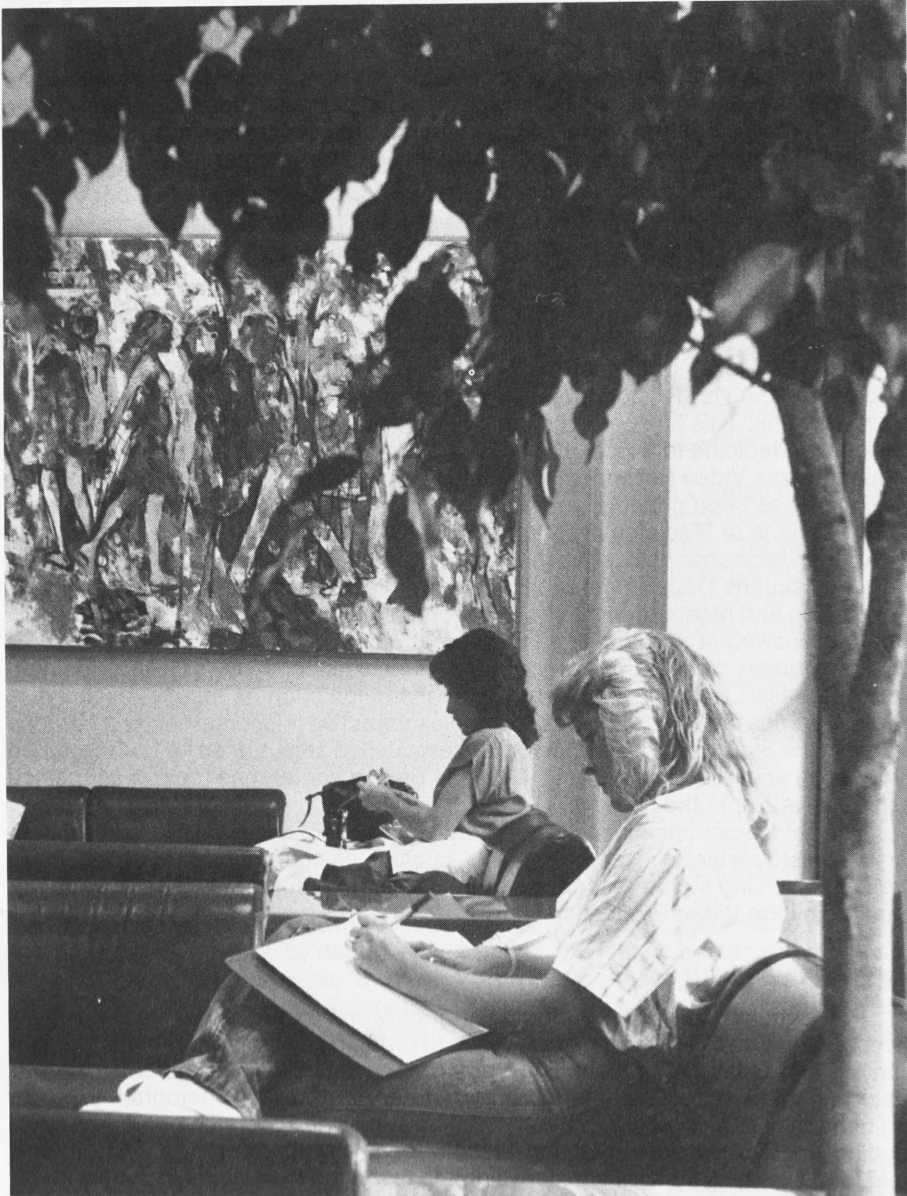
The libraries of Scott & White Memorial Hospital and the Olin E. Teague Veterans' Center extend library privileges to TAMU medical students completing their clinical years in Temple. While smaller than the Medical Sciences Library, these libraries offer similar services, including computerized literature searching, interlibrary loan, and photocopy facilities. Scott and White's library, called the Richard D. Haines Medical Library, contains a collection 8270 books and over 1000 current journal subscriptions. The VA library consists of a collection of 5000 books, 675 audiovisuals and 400 current journal subscriptions. Both libraries are open over 80 hours each week.

### **Texas A&M University College of Medicine Media Center, Temple Campus**

The Media Center is located in the Student Union Building at the Olin E. Teague Veterans' Center. The Center houses 900 self-assisted instructional audiovisual programs and 400 basic medical reference books for the clinical sciences in an open stack system. The Media Center provides eight study carrels with video, slide and audiocassette playback equipment and four microcomputers with diagnostic, course review and wordprocessing software. The Media Center also houses a comprehensive file for residency information, FLEX review materials and the Ciba slide collection. The Media Center is open 81 hours per week for use by College of Medicine students and faculty members.

**Sterling C. Evans Library**

Texas A&M University's principal research collections, with more than 1.7 million volumes and 15,000 serials, are housed in the Sterling C. Evans Library at the center of the Texas A&M University campus. Students, faculty and staff members refer to this library for nonmedical resources.



# 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.



Photo by: Phelan M. Ebenhack

# **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.

Roman numerals to the right of the credit value of a course indicate the term in which it is usually offered.

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

## **DEPARTMENT OF ANATOMY**

□ MANA □

**Professors** I. Steele Russell (Interim Head), J. W. Wagner; **Associate Professors** M. S. Cannon, J. B. Gelderd, H. W. Sampson; **Assistant Professors** T. H. Champney, F. Gonzalez-Lima, R. T. Matthews; **Instructor** J. E. Quarles; **Postdoctoral Research Associates** R. J. Frysztak, M. Garrosa-Garcia, F. J. Helmstetter, W. Lee.

The teaching goal of the Department of Anatomy is to provide its students with a comprehensive knowledge of the organization of the human body from the subcellular level to that of the whole, intact organism. Courses in anatomy provide the necessary foundation for an understanding of the spectrum of pathological change, for acquisition of skills in physical diagnosis and surgery, and for the logical pursuit of new knowledge in medicine.

The department conducts three required courses in the first year medical curriculum — Gross Anatomy, Microscopic Anatomy, and Neuroanatomy. The format of these courses includes standard lectures, the use of a wide range of audiovisual aids both in the lecture room and in the Learning Resources Unit, and the participation of some clinical specialists. A great deal of emphasis is placed on laboratory exercises.

The Department of Anatomy offers a broad range of research and training opportunities in the disciplines of anatomy and neuroscience. The Ph.D. degree program is selected by the faculty advisor, the student, and an advisory committee. Graduate students are expected to gain teaching experience by assisting in basic anatomy courses. Neuroscience areas of research include: behavioral neurophysiology, neuroanatomical bases of behavior, neuroendocrinology, neuropharmacology and neural plasticity. Other areas of research are: comparative hematology, experimental embryology, joint and bone, and metabolism of the microvasculature. Graduates of the Ph.D. program are prepared for careers in teaching and research 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.
- 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

□ MFCM □

**Professors** D. B. Cauthen (Head), O. C. Cooper, C. J. Daniel, P. Davis, H. S. Lipscomb; **Clinical Professors** C. D. Campbell, J. J. Hall, B. LeBleu, J. I. Lindsay, J. T. L. McNew, H. D. Pope, Jr., S. H. Richardson; **Associate Professors** R. G. Morgan, P. W. Sudin; **Clinical Associate Professors** J. N. Bryan, J. A. Dula, D. A. Gloff, R. W. Huddleston, K. B. Hudspeth, B. C. Jones, G. R. McIlhaney, R. W. Pearce, D. R. Segrest, J. M. Weed III, J. S. Weinblatt; **Assistant Professors** W. G. Bartels, J. A. Benson, J. E. Braden, Jr., A. B. Caylor, B. A. Chumak, C. W. Clanton, E. A. Cooney, R. Cortes, G. R. Couchman, P. H. Crumpler, R. D. Cummings, A. J. Davis, W. F. Floyd, P. D. Gerdes, G. R. Goebel, B. K. Gordon, W. L. Gummelt, M. P. Hagen, R. A. Henry, Jr., R. D. Jensen, J. A. Joseph II, M. O. Kirkpatrick, W. R. Kiser, G. N. Lambert, M. J. Leshikar, W. J. Linder, O. W. Lowrey, J. E. Madsen, T. D. Maynard, D. A. McClellan, C. T. Mears, M. Mutyala, 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, R. P. Ryan, J. W. Sayre, F. J. Silva, R. A. Smith, S. L. Smith, K. A. Stienstra, B. Stone, S. E. Stutes, D. E. Turvey, R. B. Watson, R. M. Wiprud, Jr., H. S. Wu; **Joint Assistant Professor** S. I. Bame; **Clinical Assistant Professors** D. C. Allison, S. D. Benold, S. A. Braden, D. J. Cabrera, R. G. Cochran, Jr., R. G. Ellis, J. H. Focke III, R. L. Haydon, L. G. Hermann, R. E. Herron, R. A. Howard, G. C. Hubley, Jr., T. S. Novosad, S. D. Patel, C. H. Prihoda, C. A. Reynolds, H. J. Robinson, G. W. Smith, D. B. Stigler, D. E. Stuckey, 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 term of the first year, introduces students to methods for dealing with patients. Physical Diagnosis, which begins in the spring quarter 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.

## HUMANITIES IN MEDICINE

□ MHUM □

**Professors** J. H. Clements, J. J. McDermott, D. H. Rosen, D. J. Self (Interim Head), F. D. Wolinsky; **Associate Professors** B. I. Gastel, G. A. Russell; **Assistant Professor** J. R. Pickle.

Humanities in Medicine is a charter department in the College of Medicine. The tasks of this department are fivefold: 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; for example, as found in the work of medical genetics or pharmacology; 4) to provide sustenance for students with regard to the developing relationship between scientific, technological and humanistic learning in the making of a physician; and, 5) to stress the complex interpersonal, social, legal and political factors in the physician-patient relationship.

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

Each year, the department sponsors several 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 and the history of medicine. Prerequisite: Approval of department head.
- 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

□ IMED □

**Professors** R. N. Barnes, J. D. Bonnet, G. W. Brasher, R. J. Carabasi, N. Christoff, P. Davis, W. P. Dyck, A. B. Follender, P. F. Gilliland, J. R. Higgins, P. H. Howard, Jr., J. D. Ibarra, Jr., M. M. B. Kay, K. B. Knudsen, P. H. Langsjoen, H. S. Lipscomb, N. S. Mann, J. P. McManus, J. O. Morse, G. C. Okeson, R. G. Rossing, V. E. Schulze, J. C. Starr (Head), A. D. Steele, T. I. Wallace, R. E. Walsh, L. E. Watson, T. H. Williams; **Professor 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, J. B. Green III, H. H. Hahn II, B. R. Hajra, D. F. Havemann, V. D. Holleman, D. L. Hurley, P. D. Larsen, J. C. Leadbeater, R. P. Lenehan, J. J. Madler, J. E. McClendon, R. G. Morgan, P. Mukhopadhyay, S. L. Norman, M. Osman, R. L. Palmer, F. Perez-Guerra, V. K. Piziak, D. P. Posey, T. V. Pursley, J. C. Robinson, H. B. Russman, S. A. Sanchez, J. A. Schuchmann, P. H. Stoltenberg, E. E. Terry, A. A. Trowbridge, 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, D. M. Allen, B. W. Amaral, D. D. Barton, M. E. Bassel, B. C. Bollinger, P. D. Bolton, Jr., J. R. Bowling, H. Che, B. H. Chlapek, T. C. Coburn, R. D. Cole, G. B. Drake, D. R. Droemer, Jr., J. E. Dvoracek, G. P. Fiocco, D. S. Gantt, C. E. Geyer, Jr., E. Gowan III, D. L. Hackethorn, K. U. Hackney, Jr., L. V. Hobratch, J. A. Jackson, R. H. Jesse IV, K. M. Jew, J. W. Jundt, M. H. Kelleher, B. D. Koehler, P. D. Lemper, G. D. LeSage, D. L. Lindzey, R. J. Long, S. K. Mann, D. E. Markel, M. P. Martin, J. L. May, S. A. McMahan, M. W. Morse, D. L. Myers, I. D. Mutyala, A. E. Nickel, P. E. Ogden, W. G. Petersen, M. A. Prince-Fiocco, L. D. Price, G. Quick, M. Raebel, J. J. Rohack, R. S. Rosenberger, F. Ruzicka, Edwin A. Sammer, M. R. Schlabach, D. J. Smith, W. G. Stanley, R. C. Stern, T. N. Tracey, S. C. Walker, J. G. White, K. F. Williams,

S. A. Williams, G. R. Willie; **Clinical Assistant Professors** P. R. Alexander, D. E. Brannon, C. J. Cramm, Jr., N. M. Dave, T. F. Eska, T. A. Ginn, T. B. Hancher, K. Landgraf, 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; **Instructor** V. H. Van Wormer.

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. Elective Clerkship In . . . 4 weeks.** Elective clerkship in a specific area of internal medicine. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.
- 984. Selective Clerkship In . . . 2 or 4 weeks.** Selective clerkship in a specific area of internal medicine. 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); **Professor Emeritus** J. M. Prescott; **Clinical Professor** M. K. Kukulich; **Associate Professors** S. Bassion, D. K. Struck; **Assistant Professors** M. E. Cusick, S. M. Dobin, A. C. R. Ficht, G. D. LeSage, S. M. Thacher.

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.

The winter term (Medical Biochemistry I) is concerned primarily with the study of macromolecules, molecular biology, and molecular genetics. The spring term (Medical Biochemistry II) deals with intermediary metabolism; and, 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.

**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 (Head), K. A. Ippen-Ihler, M. M. B. Kay, L. H. Russell, Jr.; **Associate Professors** S. Bassion, A. I. B. Hillis, T. W. Huber, W. B. McCombs III, D. N. McMurray, J. M. Quarles, V. G. Wilson; **Assistant Professors** T. W. Milligan, 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*, influenza virus, and *Treponema pallidum*; 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 or permission of instructor.
- 923. Medical Microbiology I. (3-2). Credit 3.** General concepts of microbiological principles and phenomena in relation to clinical manifestations 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

□ MPH M □

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

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, antiarrhythmics, antineuroblastoma agents, central control of peripheral blood pressure, microcirculation, alcoholism, antiepileptics, antiangings, 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 924 and approval of department head.
- 989. Special Topics in . . . Credit 1 to 4.** Selected topic in an advanced area of medical pharmacology. Prerequisites: MPHM 924 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

□ MPHY □

**Professors** A. H. Goodman, H. J. Granger (Head), E. E. Smith, W. E. Ward; **Associate Professors** G. A. Meininger, T. V. Peterson; **Assistant Professors** W. M. Chilian, M. J. Davis; **Assistant Research Scientists** R. E. Lewis, C. J. Meininger, D. C. Zawieja; **Postdoctoral Fellows** D. V. DeFily, J. C. Falcone, M. A. Hill, 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 physicochemical processes and control mechanisms responsible for the normal and abnormal behavior of organisms.

The basic concepts of medical physiology are presented during the winter and spring terms of 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. Prerequisites: MPHY 901, 902 and approval of department head.

## MEDICINE-INTERDISCIPLINARY

□ MEID □

- 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

□ OBGY □

**Professors** D. P. Baker (Head), B. L. Shull; **Clinical Professors** W. F. Baden, R. H. Benbow; **Associate Professors** R. H. Brakemeier, C. V. Capen, W. R. Gold, Jr., A. B. Knight, T. J. Kuehl, F. L. Leavelle, R. B. Nisbet; **Clinical Associate Professors** L. W. B. Rasberry, W. B. Roman, Jr.; **Assistant Professors** P. S. Greene, J. R. Meyer, K. M. Patterson, J. F. Pliego, W. L. Rayburn, C. W. Sanders, 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.

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.

An eight 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 eight week clerkship, students rotate for four weeks on the Obstetrics Service and four 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, gynecologic-urology, and high-risk obstetrics.

- 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

□ MPAT □

**Professors** S. C. Bauserman, J. S. Davis, K. R. Dirks (Interim Head), H. H. Mollenhauer, R. F. Peterson, R. S. Stone; **Senior Lecturers** S. Geerling, L. E. Lindner; **Clinical Professors** C. C. Conley, J. A. Jachimczk, D. A. Jutzy, J. C. Lee; **Associate Professors** H. R. Adams, Z. L. Bandi, S. Bassion, J. B. Coulter III, J. A. Diaz, J. F. Greene, Jr., T. W. Huber, D. J. Ladd, W. B. McCombs III, E. S. Rappaport, S. P. Somerville, A. M. Spiekerman; **Clinical Associate Professor** R. A. Reid; **Assistant Professors** R. S. Beissner, P. N. Brawn, S. M. Dobin, J. R. DeVillier, L. R. Donner, G. J. Kochevar, T. W. Milligan, V. O. Speights, Jr., R. A. Trompler; **Clinical Assistant Professor** J. A. Tomlinson; **Medical Specialists** F. D. Mistry, J. A. Nettum.

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) is taught in the fall term; Systemic Pathology (diseases of the organ systems) is taught in the winter and spring. The pathology courses serve as a bridge between the basic sciences and the clinical disciplines. 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 terms.

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 study of sexually transmitted diseases, especially chlamydia, characterization of schistosomiasis and its causative agent, effect of mycotoxins on the immune system, identification and characterization of an antigen in carcinoma of the kidney, the interaction of insulin with the lens, the pathogenesis of hemolytic uremic syndrome, comparison of onco-

gene expression in human and canine osteosarcoma, glomerular permeability in experimental diabetic nephropathy, secretory IgA in canine gastrointestinal fluids, plasma exchange, gastrointestinal cancer, hematologic disease, cancer of the prostate, characterization of envelope protein in large cell cancer of the lung, and liver disease.

- 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

□ MPED □

**Professors** W. R. Allen, G. W. Brasher, W. S. Conkling, L. S. Frankel, D. R. Krauss, H. B. Hahn, Jr., B. L. Koops (Head), N. G. Lawyer, C. D. Morehead, R. E. Myers; **Associate Professors** J. R. Asbury, D. E. Crisp, C. A. Daniel, J. F. Daniel, B. G. Gold, P. D. Larsen, W. F. Meyers, C. E. Oltorf, W. A. Rae, J. Q. Thompson, Jr.; **Clinical Associate Professors** N. A. Harris, S. S. Skrovan; **Assistant Professors** S. K. Brandt, B. Brown, C. Cipriani, S. Coles, D. Custer, S. M. Dobin, D. R. Douty, T. B. Douty, D. M. Foster, C. Fournier, B. A. T. Hagen, D. R. Hardy, S. P. Nickel, T. K. Olson, B. R. Paull, R. Ransom, D. Schellhase; **Clinical Assistant Professors** K. E. Matthews, J. W. Parr, A. S. Patel, K. H. Rollins, M. S. Sicilio; **Instructor** L. A. Wick.

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 lectures by practicing pediatricians from Bryan/College Station and Temple. 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 eight week pediatrics clerkship is offered throughout the third year and consists of four weeks in the hospital, two weeks in the outpatient clinic, one week in nursery, and one week in chronic pediatric conditions. 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 forty hours of formal lectures. 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 4 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

□ MPSY □

**Professor** R. R. Rynearson (Head); **Associate Professors** L. I. Androes, L. Bains, J. L. Bodden, G. R. Brooks, L. A. Gamino, P. S. Hill, R. B. Nisbet, W. A. Rae, W. L. Stewart; **Clinical Associate Professors** F. E. Gist; **Assistant Professors** R. A. Brandon, J. A. Cooney, G. R. Elkins, C. J. Fournier, T. Hardaway, P. B. Hicks, P. L. Hughes, R. B. Hunter, R. E. Krych, W. J. Meek, R. Moczygomba, T. K. Olson, D. Orman, J. T. Parks, J. Pichot, K. B. Robbins, D. Spencer, C. Svoboda, P. Tolciu; **Instructors** B. Clark, Sr., L. Coleman, L.J. Goza, S. S. Huber, C. Russell.

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 familiarity with psychiatric diseases, as well as providing formative feedback to students on their interviewing skills.

The first year course, Working with Patients, in the spring term is taught in a series of semiweekly lectures that deal with basic psychological concepts, the psychological aspects of the human life cycle, psychological aspects of the doctor-patient relationship and an introduction to some of the theoretical views that have been developed to understand mental functioning. The second year course, Intro-

duction to Clinical Psychiatry, uses weekly lectures to cover descriptively the major psychiatric disorders and their treatments. During the eight week clerkship each student will rotate through four different areas for two weeks each.

1. *Scott and White Inpatient Psychiatry Service (STC-1)*

Students assigned to this service will see patients on the Teaching Service and Of STC-1 and be supervised by the faculty member charged with that responsibility. During this two week period each student will be assigned (as an observer) to attend all \*electroconvulsive treatments scheduled during the week of his/her assignment. As time permits students will also participate in Psychiatric Consultation requested for inpatients on other services and in emergency patients presenting to the emergency room.

\*ECT is performed at 7:30 a.m. daily in the Recovery Room adjacent to the Surgical Suite on the second floor of the Wise Emergency Treatment Center.

2. *OETVC Psychiatry Inpatient Service*

Students will be assigned to an eight bed research unit in the VA Hospital and under the direction and supervision of Drs. Hicks and Ramsey. Students will work mainly in this setting, but may also see patients in consultation on medical and surgical wards or in Admissions.

3. *Mental Hygiene Consultation Service-U.S. Army Darnall Community Hospital, Fort Hood, Texas*

During this rotation students will participate in initial evaluation of psychiatry "sick call" with the teams of military mental health professionals (psychiatrists, psychologists, social workers, and enlisted technicians). Students will also see selected inpatients on the Psychiatric Unit and on other medical-surgical units. Also they will participate in other scheduled teaching, staffing and professional conferences. Students should report to Building 203, Fort Hood, TX at 7:30 a.m. each morning of the rotation. (Take the entrance to Fort Hood to Headquarters Avenue, take a right on Headquarters Avenue and go past the service station almost to the intersection of Headquarters Avenue and 31st Street. Turn left into the parking lot, cross the street to Building 203).

4. *Scott and White ADDTP Service*

The students will have an intensive experience that will provide information regarding the following substances: alcohol, sedative hypnotics, opiates, amphetamines, cannabinoids, hallucinogens, tobacco, volatile substances, and atropine-like drugs. It is expected that a basic understanding of the diagnosis of chemical dependence and issues relating to treatment and rehabilitation will be obtained. The students will also be expected to understand the pharmacological, physiological and pathological effects of these substances. This will be accomplished by daily direct patient contact, seminars with the attending physician, attendance at patient oriented activities (seminars, A. A., etc.), and interaction with other treatment team members.

Also included in the third year clerkship is a subcourse in interviewing skills. Didactic instruction in interviewing is combined with critiques of videotaped interviews with current psychiatric patients. A series of clinically oriented lectures are given on several days of the week throughout the third year psychiatry clerkship.

Electives offered during the fourth year include: Advanced Inpatient Psychiatry, Alcohol and Drug Dependence Treatment Program, Consultation Liaison Psychiatry, Behavioral Medicine and Hypnosis, Outpatient Psychiatry and Clinical Research Design and Application.

Among the research projects pursued by faculty members within the department are investigations into: the effects of electroconvulsive treatment on animals under treatment with MAOI drugs; development of a clinical scale to identify alcoholics in a general medical population; treatment of bulimia patients with tricyclic antidepressants; the alcohol recovery training unit; identification of psychogenic factors in chronic pain patients; psychometric assessment and abbreviation for im-

proved readability of the short form of the MMPI; psychosocial impact of play on hospitalized latency-aged children; and analysis of measured personality characteristics of chronic low back pain patients and multiple pain 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.
- 981. Seminar. (1-0). Credit 1.** Seminars in areas related to psychiatry. Prerequisite: Three semesters in psychiatry.
- 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 psychologic 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

□ MRAD □

**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, B. J. G. McConnell, F. C. Petty, E. J. Schoolar, Jr., O. D. Skinner, J. M. Stoebner, A. K. Teaford; **Clinical Associate Professors** G. F. Brossmann, E. A. Elmendorf; **Assistant Professors** S. P. Bartold, A. M. Donnelly, J. H. Hise, L. G. Naul III, M. L. Nipper, R. J. Pischinger, F. G. Pratt, K. J. Ratajczak, R. S. Shah, G. P. Swanson, S. M. Wright, 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 . . . 4 weeks.** Elective clerkship in a specific area of radiology. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.
- 984. Selective Clerkship in . . . 2 weeks.** Selective 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, H. H. Brindley, Sr., C. W. Broders, A. K. Brown, Jr., R. D. Cunningham, L. G. Druipple, W. R. Engvall, R. H. Hayward, G. T. Keegan, R. C. Klugo, F. L. Korompai, D. J. Lynch (Head), D. E. Pisar, J. W. Roberts, T. Ruff, E. W. Stark, D. E. Waugh, R. R. White IV; **Professor Emeritus** G. V. Brindley, Jr.; **Clinical Professors** W. M. Cocke, Jr., R. H. Harrison III; **Associate Professors** L. W. Adams, G. W. Allen, F. R. Arko, D. A. Barnett, E. E. Bellens, G. O. Brindley, R. G. Carlson, K. S. Coffield, J. P. Dieckert, J. D. Fisher, D. R. Haywood, J. C. Hendricks, C. F. Johnson III, O. E. Kitchings III, W. L. Knight, K. R. Lecocq, A. Lenis, W. E. Lowry, Jr., T. E. Runyan, M. R. Smigiel, Jr., S. K. Snyder, R. E. Symmonds, Jr., C. B. Tate, Jr., C. N. Verheyden, A. H. Wahlen; **Clinical Associate Professors** F. G. Anderson, L. W. Coleman, Jr.; **Assistant Professors** C. W. Akins, F. F. Andrew, J. D. Bean, H. Birtholz, T. M. Bittenbinder, D. L. Boysen, S. K. Brandt, G. W. Brindley, H. H. Brindley, Jr., C. S. C. Chang, M. D. Custer, R. J. Dunlop, R. M. Freeman, J. R. Gibson, Jr., F. J. Gillette, Jr., M. L. Glasgow, W. P. Goforth, P. C. Grothaus, J. T. Havalda, M. R. Hermans, A. A. Hilmy, G. H. Horsfall, A. Jew, C. F. Kallina, J. L. Kethley, Jr., T. K. Matthews III, A. J. McDavid, V. A. Mehta, S. A. Meuse, M. J. Miller, G. H. Morton, S. A. Norris, P. P. Pandya, D. D. Peterson, B. L. M. Pollock, R. L. Riess, E. O. Singh, R. W. Smith, D. J. Taylor, F. D. Todd II, C. A. Venus, F. J. Villamaria, M. R. Warner, J. A. Waxman, C. D. Weeks; **Clinical Assistant Professors** D. E. Beesinger, H. E. Bohne, J. W. Ditzler, Jr., J. B. Giles, J. B. Glenn, Jr., T. B. Gorden, G. L. Hemphill, M. D. Kattner, M. B. Lindsay, W. H. Marr, M. F. McMahan, M. B. Riley, N. D. Shipman, D. M. Stauch, A. K. Young, R. R. Young, Jr.; **Instructors** H. G. Beaver, A. G. Lueck, T. H. McCollum, V. H. Salzman, 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. Elective Clerkship In . . . 4 weeks.** Elective clerkship in a specific area of surgery. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.

**984. Selective Clerkship In . . . 2 or 4 weeks.** Selective 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.



The Olin E. Teague Veterans' Center Main Administration Building



# ■ *RESEARCH INSTITUTES*

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## 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 underway 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 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, which maintains the third largest collection of tumor cell lines in the world.

Research programs at the center are supported by grants from the National Institutes of Health, the State of Texas Advanced Technology Research Program, and the American Cancer Society. 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.





## PRESENT STUDENTS

### *Class of 1990*

#### *Name, Home City, and Degrees*

- Aboukhair, Nabli Khalil;** Mansourieh, Lebanon. B.S., Howard Payne University, 1982; M.S., Texas A&M University, 1984.
- Atkinson, Denis Stuart, Jr.;** Ft. Worth. B.S., Texas Christian University, 1986.
- Barker, Robert Neal;** El Paso. B.S., University of Texas at El Paso, 1985.
- Bennett, Lola Ann;** San Angelo. B.S., Angelo State University, 1986.
- Best, Susan Elizabeth;** College Station. A.B., Sweet Briar College, 1975; M.S., Massachusetts Institute of Technology, 1979; Ph.D., Massachusetts Institute of Technology, 1985.
- Bravo, Francisco Efrain;** McAllen. A.A.S., Texas Southmost College, 1985.
- Burleson, Dale Dudley, Jr.;** Richardson. B.A., University of Texas at Austin, 1986.
- Campbell, Joel Mark;** Marlin. B.A., Baylor University, 1979; M.B.A., Baylor University, 1981.
- Chalki, Hari P.;** Temple. B.S., Texas A&M University, 1984.
- Chang, Phyllis Clara;** Houston. B.A., Rice University, 1986.
- Coates, Greig Weber;** Castroville. B.A., Austin College, 1986.
- Cohen, Michael Kelth;** Beaumont. B.S., Texas A&M University, 1985.
- Davis, Terri Lyn;** Giddings. B.S., Texas A&M University, 1984.
- Durica, Jon Mark;** Fairfield. B.A., University of Connecticut, 1985.
- Eckert, Rebecca Sharon;** Castroville. B.S., Baylor University, 1984.
- Edwards, Jonathan Duane;** Somerville. B.A., Texas A&M University, 1986.
- Eller, Richard Frank;** Plano. B.A., Baylor University, 1983; M.S., Texas A&M University, 1986.
- Esparza, Ezequiel Teran;** Brownsville. B.A., University at Austin, 1985.
- Frost, Jami Dalene;** Houston. B.A., University of California, 1985.
- Grossmith, John Paul;** Converse. B.S., Embry Riddle University, 1976.
- Hart, Stephen Forrest;** Friendswood. B.A., University of Texas at Austin, 1981.
- Jefferson, Henry Charles;** Columbus, Ohio. B.S., University of Texas at San Antonio, 1986.
- Jernigan, Floyd EdsII;** Hurst. B.A., University of Texas at Arlington, 1982.
- Johnson, Mark Alan;** Houston. B.S., Northwest State University of Louisiana, 1985.
- Lacy, Timothy Jerome;** Nacogdoches. B.S., Stephen F. Austin, 1984.
- Lancaster, Brent Alan;** Winters. B.S., Texas A&M University, 1986.
- Latham, Palge;** Amarillo. B.A., Austin College, 1986.
- Layton, Ernest Gaston, Jr.;** Houston. Texas A&M University, No Degree.
- Loftis, Laura Lynn;** Dallas. B.A., University of Texas at Austin, 1986.
- Lowe, Darla Gaye;** Garland. B.S., University of Texas at Austin, 1981.
- McClain, Lanna Brooke;** Odessa. B.S., Texas A&M University, 1986.
- McDonough, Michelle Denise;** San Antonio. B.S., Texas A&M University, 1983.
- Mohney, Brian Glenn;** Austin. B.A., University of Arizona, 1983.

- Nicholson, John Charles**; Houston. B.A., Baylor University, 1986.  
**Richards, Terri Ann**; Houston. B.S., Texas A&M University, 1986.  
**Rivero, Mary Helen**; San Antonio. B.A., University of Texas at Austin, 1975.  
**Rosa, Robert Harold**; San Antonio. B.S., Texas A&M University, 1986.  
**Sees, David Wayne**; San Antonio. B.S., University of Texas Medical Branch in Galveston, 1982.  
**Shirey, Cleve Royce**; Houston. B.S., Baylor University, 1985.  
**Sinha, Anil Kumar**; Houston. B.S., Texas A&M University, 1984.  
**Slaughter, Ronald William**; Clear Lake. Texas A&M University, No Degree.  
**Taylor, Lisa Carole**; Dallas. B.B.A., University of Houston, 1983.  
**Tomac, Tracy Ann**; Richardson. B.S., Texas A&M University, 1986.  
**Vastine, Victoria Lee**; Austin. B.S., Texas A&M University, 1985.  
**Walker, Kim Lorraine**; Houston. B.S., Texas A&M University, 1979; M.S., Texas A&M University, 1984.  
**Walshall, Ellen Deloy Brown**; Midland. B.S., Texas Tech University, 1986; M.S., Texas Tech University, 1982.  
**Wang, Jeffrey Sze-Chung**; Houston. B.S., Southwestern University, 1986.  
**Wauters, Ronald John**; Houston. University of Houston, No Degree.  
**Wright, Libbyette Elaine**; Rosenberg. B.S., Prairie View A&M University, 1985.

### *Class of 1991*

#### *Name, Home City, and Degrees*

- Abrameit, Warren Allen**; Victoria. B.S., Texas A&M University, 1987.  
**Aitken, Alexander Tolford**; Richardson. Texas A&M University, No Degree.  
**Baker, John Scott**; Abilene. Baylor, No Degree.  
**Bauer, Jill Alden**; Wimberly. B.A., Barnard College, 1980; M.I.A., Columbia, 1983.  
**Bivona, Melanle Michelle**; San Marcos. B.S., Southwest Texas State University, 1987.  
**Borling III, George Wallace**; College Station. B.A., Texas A&M University, 1986.  
**Bule, Charliise Ann**; Spring. B.S., Baylor University, 1985; M.S., Baylor University, 1987.  
**Chen, Phillip Yun**; College Station. B.A., University of Pennsylvania, 1986.  
**Creager, Ann Hill**; Ft. Worth. B.A., Texas A&M University, 1987.  
**Crockett, Dale Ray**; Dale City. B.S., Texas A&M University, 1987.  
**Davis, James Donald**; Arlington. University of Texas at Arlington, No Degree.  
**Frazier, Ronald Kelth**; Texarkana. B.S., Stephen F. Austin, 1979.  
**Freeman, Frederick Manuel**; Raywood. B.S., Prairie View A&M University, 1985.  
**Frye, Shelly Denise**; Dimmitt. B.A., Texas A&M University, 1987.  
**Gadberry, Walter Leslie**; Follett. B.S., Texas A&M University, 1981; M.S., Texas A&M University, 1986.  
**Greller, Janet Michelle Conway**; Austin. B.A., University of Texas at Austin, 1987.  
**Herrera, Larry**; Jourdanton. University of Texas at San Antonio, No Degree.  
**Hoermann, Matthew James**; Hillsboro. B.S., Texas A&M University, 1987.  
**Humphreys, Rance William**; Jacksonville. Texas A&M University, No Degree.  
**Iddins, Bart O.**; Austin. D.V.M., University of Tennessee, 1982.  
**Izumi, Akihiro**; Houston. B.S., Kinki University, 1978; Ph.D., Rice University, 1986.

**Jamroz, Lisa Dian;** Temple. B.A., University of Texas at Austin, 1987.  
**Kalantar, Julie Alma;** Dallas. B.S., Dallas Baptist College, 1984.  
**Li, Kin Wah;** Houston. B.A., University of Hong Kong, 1978; M.Arch., Texas A&M University, 1984.  
**Lopez, Joseph Anthony;** Brownsville. B.S., Pan American University, 1987.  
**Mathews, Pamela Ann;** Austin. B.S., University of Texas at Austin, 1985.  
**Maxwell, John Andrew;** Houston. B.S., Texas A&M University, 1984.  
**Moczygemba, Roger Michael;** San Antonio. B.S., Texas A&M University, 1984.  
**Moellenhoff, Michael Eric;** Cleburne. Texas A&M University, No Degree.  
**Montemayor, P. Christine;** Spring. B.A., Texas A&M University, 1987.  
**Morgan, Allison E. Moore;** Bryan. Texas A&M University, No Degree.  
**Nelson, Laurence Merl;** Lubbock. B.S., Idaho State, 1984.  
**Olista, Susan Ann;** Huntsville. Texas A&M University, No Degree.  
**Overley, Scott Howard;** San Antonio. A.S., San Antonio College, 1985.  
**Phillips, Claudia Anne;** Conroe. B.S., Stephen F. Austin, 1984.  
**Priest, Kenneth Dale;** Euless. Texas A&M University, No Degree.  
**Raabe, Todd Martin;** Conroe. Texas A&M University, No Degree.  
**Rahm, Ashley Lynn;** Temple. Texas A&M University, No Degree.  
**Razi, Saba;** Kanpur, India. B.S., University of Texas at Arlington, 1987.  
**Russell, Dena Gall;** San Antonio. B.S., Trinity University, 1987.  
**Samaan, Jane Susan;** Houston. B.S., Texas A&M University, 1987.  
**Steelman, Joel Wayne;** Bryan. B.S., Texas A&M University, 1986.  
**Talleh, Leila;** Houston. B.S., University of Houston, 1985.  
**Thompson, Gwendell;** Ft. Worth. B.S., Texas Woman's University, 1985; M.S., Texas Woman's University, 1987.  
**Tran, Connie Khanh Vu Lan;** Houston. B.S., Houston Baptist University, 1987.  
**Ullissey, Michael John;** College Station. Texas A&M University, No Degree.  
**Williams, Bradford Jay;** San Antonio. B.S., Texas A&M University, 1986.  
**Willis, Kimberly Anne;** B.S., Texas A&M University, 1987.  
**Windisch, Thomas Richard;** B.S., Johns Hopkins University, 1984.  
**Young, Debbie Lynn;** Austin. B.S., Texas Lutheran College, 1984; M.S., Texas A&M University, 1987.

### *Class of 1992*

#### *Name, Home City, and Degrees*

**Almendarez, Valentin, Jr.;** San Marcos. B.A., University of Texas at Austin, 1988.  
**Belknap, Mark Lee;** Odessa. B.S., University of Texas at Permian Basin, 1988.  
**Borling, George Wallace III;** College Station. B.A., Texas A&M University, 1986.  
**Brasfield, Farah Naz;** Houston. B.S., University of Houston, University Park, 1984.  
**Bush, Sean Paul;** Temple. B.S., Texas A&M University, 1988.  
**Chesser, Michael Sean;** Waco. B.S., Texas A&M University, 1988.  
**Dang, Danh-John Tal;** Deer Park. Texas A&M University, No Degree.  
**Davey, Joseph Patrick;** Austin. B.S., University of Texas at Austin, 1983.  
**Dickerson, Karen DeLane;** Lindale. B.S., Stephen F. Austin University, 1987.

- Erwin, John Preston III;** Hillsboro. B.S., Stephen F. Austin University, 1988.
- Ex, David Anthony;** Houston. B.S., University of Houston, 1988.
- Fahlberg, Laura Lynn;** San Antonio. B.A., Trinity University, 1987; B.A., Trinity University, 1988.
- Fritz, Jed Stewart;** San Antonio. B.S., University of Texas at San Antonio, 1987.
- Griffin, Ana Katherine;** Brookshire. B.S., Texas A&M University, 1988.
- Haddox, Linda;** Atlanta, Georgia. B.S., Texas A&M University, 1988.
- Hamilton, Kenneth Wayne;** Austin. B.S., Trinity University, 1988.
- Joyce, Patricia Elena Villanueva;** Galveston. Texas A&M University, No Degree.
- Kelso, Kalin Don;** Buna. B.S., Lamar University, 1987.
- Krishnan, Ravinderan;** Houston. Texas A&M University, No Degree.
- Lanoue, John Long Jr.;** Arlington. B.A., Baylor University, 1984.
- Leach, Nancy Jill;** Abilene. B.S., Hardin-Simmons University, 1988.
- Lester, Mitchell Norman;** Houston. B.S., University of Houston, University Park, 1986.
- Long, Sharon Marsha;** Denton. B.S., Texas A&M University, 1988.
- Longmoor, Charles Erle;** Arlington. University of Texas at Arlington, No Degree.
- Luna, Matthew James;** Houston. B.S., Texas A&M University, 1987.
- Malone, Mark Steven;** Royse City. B.M.E., Baylor University, 1983.
- Martinez, Patrick F.;** Anguilla, British West Indies. B.A., Texas A&M University, 1986.
- Mohammed, Richard Shameed;** College Station. Texas A&M University, No Degree.
- Morgan, Allison E. Moore;** Bryan. Texas A&M University, No Degree.
- Moulds, Christine Charlene;** Houston. B.S., Southwestern University, 1988.
- Murnane, Thomas George;** Fort Worth. B.S., Texas A&M University, 1981.
- Naqi, Amina;** Bryan. Texas A&M University, No Degree.
- Nelsner, David Robert;** Columbus. Texas A&M University, No Degree.
- Parker, James Alvin;** Crosby. B.S., University of Texas Medical Branch at Galveston, 1986.
- Prvulovic, Tomi T.;** Houston. B.S., University of Houston, University Park, 1988.
- Regenthal, Karen Kendall;** Bryan. B.S., Texas A&M University, 1984.
- Saffer, Tracy Hope;** Houston. B.A., University of Texas at Austin, 1988.
- Sartor, Tammy Lee;** San Antonio. B.S., Texas A&M University, 1979; M.S., Texas A&M University, 1981.
- Scherer, David Murray;** Corpus Christi. B.S., Texas A&M University, 1988.
- Simmons, Jeane Raycheal;** Missouri City. B.A., University of Texas at Arlington, 1988.
- Snow, Tasca Darlene;** Jena, Louisiana. B.S., Baylor University, 1984; M.S., Texas A&M University, 1987.
- Stanko, Sue Ellen;** Houston. B.A., Baylor University, 1988.
- Thompson, William Eugene;** Fort Worth. University of Texas at Austin, No Degree.
- Win, Sonny;** Houston. B.S., Texas A&M University, 1986.

### *Class of 1993*

***Name, Home City, and Degrees***

- 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. 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.
- Chiarito, Susan Archer;** San Angelo. B.S., Texas Christian University, 1981.
- Clark, Chris A.;** Austin. B.A., University of Texas at Austin, 1989.
- 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.
- Gomez, Omar Adrian;** Fort Worth. B.S., University of Texas at Arlington, 1989.
- Hagelstein, Laura Lou;** Graham. B.A., University of Texas at Austin, 1989.
- Halpern, Rebekah;** Ithaca, NY. B.A., University of Texas at Austin, 1983.
- Hamilton, Kerry L.;** Blacksburg, VA. 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.
- Khan, Salma S.;** Beaumont. B.S., University of Houston, University Park, 1988.
- 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.
- Moreno, Tony T.;** Uvalde. B.S., University of Texas Medical Branch, 1982.
- Morris, Wayne B.;** Coraopolis, PA. B.S., Case Western Reserve University, 1980.
- Nguyen, Hoang Dao;** Mesquite. B.S., Texas A&M University, 1986.
- Nguyen, Krystal;** Grand Prairie. B.S., Texas A&M University, 1989.
- Nguyen, My-Linh;** San Antonio. B.S., University of Texas at San Antonio, 1989.
- 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.
- Reltmeyer, 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.

**Whitworth, James R.;** Fort Worth. B.S., Texas Christian University, 1982; M.A., Texas Christian University, 1985.

**Zasuly, James M.;** Plano. B.S., Texas A&M University, 1987.

**Zollinski, Cynthla L.;** Saginaw, MI. B.S., Alma College, 1988.



## FORMER STUDENTS AWARDED THE M.D. DEGREE

\*Indicates students who graduated "With Honors"

### *Class of 1989*

<i>Name, Home City, and Degrees</i>	<i>Residency Appointment</i>
<b>Alo, Kenneth Mark</b> ; Houston B.S., Applied Mathematical Science, University of Houston, 1985 B.S., Basic Medical Science, Texas A&M University, 1987	General Surgery Baylor College of Medicine; Houston, Texas
<b>*Bell, Theresa Ann</b> ; West B.S., Medical Technology, University of Texas Health Science Center at Dallas	Leave of Absence
<b>Borrell, Charles Avery</b> ; Temple B.S. Basic Medical Science, Texas A&M University, 1987	Diagnostic Radiology Scott & White Memorial Hospital; Temple, Texas
<b>Brawley, Elizabeth Rose</b> ; Dallas B.A., Biology, Texas A&M University, 1985 B.S., Basic Medical Science, Texas A&M University, 1987	Pediatrics University of Arizona; Tucson, Arizona
<b>*Brinkley, Michele Goldman</b> ; San Antonio B.S., Biochemistry, Texas A&M University 1985	Family Practice University of Texas at Houston Memorial Southwest; Houston, Texas
<b>Burns, Bruce Elliott</b> ; Concord, CA	Psychiatry University of California; Sacramento, California
<b>Bush, Stacie Leigh</b> ; Paris B.S., Zoology, University of Texas at Austin, 1985 B.S., Basic Medical Science, Texas A&M University, 1987	Internal Medicine Central Texas Medical Foundation; Brackenridge Hospital; Austin, Texas
<b>Bywaters, Daniel Wilson</b> ; Dallas B.S., Microbiology, Texas A&M University, 1982 B.S., Basic Medical Science, Texas A&M University, 1987	Family Practice Memorial Medical Center; Corpus Christi, Texas
<b>*Chen, Aeneid Liang-Jiu</b> ; Houston B.S., Biology, Catholic University, Taiwan, 1969 M.S., Microbiology, Emporia State University, 1977	Obstetrics/Gynecology Mayo Graduate School of Medicine; Rochester, Minnesota
<b>Childers, David Omer, Jr.</b> ; Houston B.A., History, University of Notre Dame, 1979 B.S., Basic Medical Science, Texas A&M University, 1987	Pediatrics Portsmouth Naval Hospital; Portsmouth, Virginia
<b>Childs, Ed Warren</b> ; Mexia B.A., Biology, University of Texas at Dallas, 1987	General Surgery University of Kansas Medical Center; Kansas City, Kansas
<b>Clark, Michael Scott</b> ; Riverside, CA B.A., Physics, Pomona College, 1983	Psychiatry University of Texas at San Antonio; San Antonio, Texas

- Collins, Darryl Dewitt;** Colleyville  
B.S., Biology, University of Texas at Arlington, 1985  
Family Practice  
Memorial Medical Center; Corpus Christi, Texas
- Copenhaver, Steven Craig;** Scottsbluff, NE  
B.S., Biology/Chemistry, Sterling College, 1984  
Pediatrics  
Duke University Medical Center; Durham, North Carolina
- \*Crane, Stuart Douglas;** Rockwall  
B.S., Civil Engineering, University of Texas at Austin, 1985  
Psychiatry  
Menninger School of Psychiatry; Topeka, Kansas
- Flyer, Mark Alan;** East Rockaway, NY  
B.A., English and Comparative Literature, Columbia University, 1984  
Diagnostic Radiology  
State University of New York Health Science Center; Brooklyn, New York
- Fuller, Linda Jean;** Youngstown, OH  
B.A., Psychology, Park College, 1979  
Pediatrics  
Scott & White Memorial Hospital; Temple, Texas
- Galan, Henry Louis;** San Antonio  
B.A., Biology, University of Texas at Austin, 1985  
B.S., Basic Medical Science, Texas A&M University, 1987  
Obstetrics/Gynecology  
Scott & White Memorial Hospital; Temple, Texas
- Gonzales, Joseph Manuel;** Houston  
B.S., Biology, Texas A&M University at Prairie View, 1985  
B.S., Basic Medical Science, Texas A&M University, 1987  
Internal Medicine  
University of Texas at Houston; Houston, Texas
- Grimes, Clarice Leavon;** Dallas  
B.S., Biology, Texas Woman's University, 1980  
B.S., Basic Medical Science, Texas A&M University, 1987  
Obstetrics/Gynecology  
Texas Tech University Regional Academic Health Sciences Center at Odessa; Odessa, Texas
- Grun, Tanya Renee;** Tuscola  
B.S., Biology, Angelo State University, 1984  
Family Practice  
Memorial Medical Center; Corpus Christi, Texas
- Hansard, Lisa Joy;** Lubbock  
B.A., Biology, Texas A&M University, 1985  
B.S., Basic Medical Science, Texas A&M University, 1987  
Obstetrics/Gynecology  
University of Texas Health Science Center at San Antonio; San Antonio, Texas
- Hensel, Alison Suzanne;** Arlington  
B.S., Biology, Texas A&M University, 1985  
Family Practice  
University of Texas at San Antonio; McAllen Medical Center; McAllen, Texas
- Johnson, Karen Ann;** Dallas  
B.S., Zoology, Texas A&M University, 1982  
M.S., Nutrition, Texas A&M University, 1984  
General Surgery  
Hospital of St. Raphael; New Haven, Connecticut
- Johnson, Patrick Randolph;** Cedar Hill  
B.S., Chemical Engineering, University of Texas, at Austin, 1985  
B.S., Basic Medical Science, Texas A&M University, 1987  
General Surgery  
Scott & White Memorial Hospital; Temple, Texas
- Kerber, Caroline Ann;** Bryan  
B.S., Biology, Texas A&M University, 1984  
B.S., Basic Medical Science, Texas A&M University, 1987  
Internal Medicine  
University of Missouri at Columbia; Columbia, Missouri
- Martin, Ronald Jay;** Houston  
B.A., Psychology, Trinity University, 1980  
B.S., Basic Medical Science, Texas A&M University, 1987  
Internal Medicine  
Scott & White Memorial Hospital; Temple, Texas

- Middleton, Michael Lance;** Austin  
B.S., Biology/Chemistry, Southwestern University, 1985
- Monroe, Mark Haskell;** El Paso  
B.S., Basic Medical Science, Texas A&M University, 1987
- \*O'Brien, Jeana Doonan;** Caldwell  
B.S., Biomedical Science, Texas A&M University, 1984
- Peabody, Brenda Kay;** College Station  
B.S., Biology, Texas A&M University, 1983  
B.S., Basic Medical Science, Texas A&M University, 1987
- Pierce, Karl Randolph;** Houston  
B.S., Applied Math, University of Mary Hardin Baylor, 1984
- \*Pinkston, David Randall;** Houston  
B.S., Wildlife and Fisheries Sciences, Texas A&M University, 1978  
B.S., Basic Medical Science, Texas A&M University, 1987
- \*Pruitt, Tad Christopher;** Abilene  
B.S., Basic Medical Science, Texas A&M University, 1987
- Richardson, Mark Wayne;** San Angelo  
B.S., Biochemistry, Texas A&M University, 1985  
B.S., Basic Medical Science, Texas A&M University, 1987
- Riedel, David Charles;** College Station  
B.A., Psychology, Trinity University, 1972  
B.S., Basic Medical Science, Texas A&M University, 1987
- Rodriguez, Rene;** Elsa  
B.S., Biology, Texas A&M University, 1985  
B.S., Basic Medical Science, Texas A&M University, 1987
- Sames, Thomas August;** Eagle Pass  
B.S., Animal Science, Texas A&M University, 1985  
B.S., Basic Medical Science, Texas A&M University, 1987
- Schmidt, Timothy James;** Longview  
B.S., Biology, Texas A&M University, 1985
- Schneider, David Lynn;** Needville  
B.S., Biology, Texas A&M University, 1983  
M.S., Veterinary Physiology, Texas A&M University, 1985  
B.S., Basic Medical Science, Texas A&M University, 1987
- Slssom, Bert Waddell;** Irving  
B.S., Chemistry, Southwestern University, 1984
- Nuclear Radiology  
Albert Einstein College of Medicine;  
Bronx, New York
- Internal Medicine  
Scott & White Memorial Hospital; Temple, Texas
- Internal Medicine  
Barnes Hospital; St. Louis, Missouri
- Internal Medicine  
Scott & White Memorial Hospital; Temple, Texas
- Internal Medicine  
University of Texas Medical Branch Hospitals; Galveston, Texas
- Otolaryngology-Head and Neck Surgery  
University of Iowa Hospitals and Clinics; Iowa City, Iowa
- Orthopedic Surgery  
University of Arkansas for Medical Sciences; Little Rock, Arkansas
- Internal Medicine  
Scott & White Memorial Hospital; Temple, Texas
- Psychiatry  
Menninger School of Psychiatry; Topeka, Kansas
- Family Practice  
University of Texas at San Antonio; McAllen Medical Center; McAllen, Texas
- General Surgery  
Mayo Graduate School of Medicine; Rochester, Minnesota
- Anesthesiology  
University of Texas Health Science Center at San Antonio; San Antonio, Texas
- Psychiatry  
University of Texas Health Science Center at San Antonio; San Antonio, Texas
- Surgery  
Bethesda Naval Hospital; Bethesda, Maryland

**\*Smythe, William Roy;** Belton

General Surgery  
University of Pennsylvania; Philadelphia,  
Pennsylvania

**Stoufflet, Paul Eric;** Houston  
B.S., Electrical Engineering, Rice University,  
1985

Psychiatry  
Mount Sinai School of Medicine; New York  
City, New York

**\*Williams, John Robert, Jr.;** Jasper  
B.S., Biology, Baylor University, 1983  
M.A., Biology, Baylor University, 1986

Pediatrics  
University of Utah; Salt Lake City, Utah

**\*Wuthrich, Paul William;** Deer Park  
B.S., Basic Medical Science, Texas A&M  
University, 1987

Ophthalmology  
Scott & White Memorial Hospital; Temple,  
Texas

### *Class of 1988*

#### *Name, Home City, and Degrees*

#### *Residency Appointment*

**Appleton, Margaret Page;** Commerce  
B.S., Basic Medical Sciences, Texas A&M  
University, 1986

Obstetrics/Gynecology  
Scott & White Memorial Hospital; Temple,  
Texas

**Baird, Cynthia Marlo;** Moorestown, NJ  
B.A., Chemistry, Mid-American Nazarene  
College, 1981

Psychiatry  
Medical College of Pennsylvania;  
Philadelphia, Pennsylvania

**Barhorst, Mark Donald;** Houston  
B.s., Biology, University of Texas Health  
Science Center at Arlington, 1983  
B.S., Basic Medical Sciences, Texas A&M  
University, 1986

Anesthesiology  
Mayo Graduate School of Medicine Mayo  
Mayo Clinic; Rochester, Minnesota

**Bolling, Michael Jay;** Farwell  
B.A., Chemistry, Baylor University, 1984

Family Practice  
University of Oklahoma Tulsa Medical  
College; Tulsa, Oklahoma

**Bonds, James Vaull, Jr.;** Houston  
B.S., Biology, Baylor University, 1983

Internal Medicine  
University of Texas Health Science Center  
at San Antonio, Bexar County Hospital;  
San Antonio, Texas

**Campbell, James Edward;** Abilene  
B.S., Business, Abilene Christian University,  
1970

Anesthesiology  
University of Texas Health Science Center  
at San Antonio; San Antonio, Texas

**Cardus, Bettina Isabel;** Houston  
B.A., Spanish, Rice University, 1984  
B.A., Biology, Rice University, 1984

Internal Medicine  
University of California, Valley Medical  
Center; Fresno, California

**Castro, Juan Francisco;** Brownsville  
B.A., Biology, University of Texas at Austin,  
1984

Family Practice  
Memorial Medical Center, Corpus Christi,  
Texas

**Clark, Gayln Von;** Ennis  
B.A., Chemistry, Baylor University, 1984

Medicine/Pediatrics  
University of Missouri Medical Center;  
Kansas City, Missouri

**Dela Cruz, Teddy Villegas;** Virginia Beach, VA  
B.S., Biology, Texas A&M University, 1984  
B.S., Basic Medical Sciences, Texas A&M  
University, 1986

Pediatrics  
Eastern Virginia Graduate School of  
Medicine; Norfolk, Virginia

**Dockendorf, Brian Lee;** Palestine  
B.S., Basic Medical Science, Texas A&M  
University, 1986

General Surgery  
Scott and White Memorial Hospital;  
Temple, Texas

- Forest, Donald Alan; Redford, MI**  
 B.S., Microbiology, Michigan State University, 1977  
 B.S., Physician Assistant Program, Baylor College of Medicine Program, 1981
- Gardner, Jed Raden; Littleton, CO**  
 B.S., Microbiology, Brigham Young University, 1983
- Harris, W. Kirk; Houston**  
 B.S., Basic Medical Sciences, Texas A&M University, 1986
- Huddleston, Kevin Paul; Hearne**  
 B.A., Biochemistry, Abilene Christian University, 1984
- Iglesia, Kim Angel; Houston**  
 B.S., Civil Engineering, Texas A&M University, 1982
- Jacobson, Sheila Werch; Houston**  
 B.A., Psychology, Wellesley College, 1984
- Janecek, Stephen Ervin; Victoria**  
 B.S., Zoology, Texas A&M University, 1984  
 B.S., Basic Medical Sciences, Texas A&M University, 1986
- Jennings, Norman Larue; Carthage**  
 B.S., Biology, Stephen F. Austin University, 1984  
 B.S., Basic Medical Sciences, Texas A&M University, 1986
- Joe, John Christopher; Houston**  
 Rice University
- Johnston, Caroline Singletary; Groves**  
 B.S., Biology, Texas A&M University, 1984
- Khoury, Ada Celeste; Houston**  
 B.S., Basic Medical Sciences, Texas A&M University, 1986
- Kirven, Felix Moses; Coolidge**  
 B.S., Basic Medical Sciences, Texas A&M University, 1986
- Kotrla, Kathryn Jo; Taylor**  
 B.A., Biology/Psychology, Rice University, 1980  
 M.S., Biology, Stanford University, 1983
- Laughlin, Misty Dawn; Houston**  
 B.A., Nutritional Biology, Rice University, 1984
- Mack, Christopher Anthony; Baker, OR**  
 B.S., Biology, Oregon State University, 1984
- Internal Medicine  
 Baylor College of Medicine; Houston, Texas
- Research on Cochlear Implants  
 University of Michigan; Ann Arbor, Michigan
- Family Practice  
 Texas Tech University Health Science Center at Lubbock; Lubbock, Texas
- Family Practice  
 University of Texas Southwestern Medical School, Hendrick Medical Center; Abilene, Texas
- Diagnostic Radiology  
 Scott and White Memorial Hospital; Temple, Texas
- Neurology  
 Baylor College of Medicine Program; Houston, Texas
- Anesthesiology  
 Scott and White Memorial Hospital; Temple, Texas
- Family Practice  
 Memorial Medical Center; Corpus Christi, Texas
- General Surgery  
 St. Joseph Hospital; Houston, Texas
- Family Practice  
 San Jacinto Methodist Hospital; Baytown, Texas
- Psychiatry  
 University of North Carolina at Chapel Hill Hill School of Medicine; Chapel Hill, North Carolina
- General Surgery  
 Boston University School of Medicine; Boston, Massachusetts
- Psychiatry  
 Baylor College of Medicine; Houston, Texas
- Family Practice  
 University of Texas Medical School; Houston, Texas
- Neurosurgery  
 University of Florida College of Medicine; Gainesville, Florida

- Medford, Rex Eugene;** Denver, CO  
B.S., Biology, Texas Christian University, 1983
- Mott, Frank Edmund;** Harlingen  
B.S., Pharmacy, University of Texas at Austin, 1980
- Neal, Gregory Scott;** San Antonio  
B.A., Biology, Texas A&M University, 1982  
M.S., Biochemistry, Texas A&M University, 1984  
B.S., Basic Medical Sciences, Texas A&M University, 1986
- O'Connell, Leslie Ann;** Austin  
B.A., Biology, University of Texas at Austin, 1983  
B.S., Basic Medical Sciences, Texas A&M University, 1986
- Ogdee, Robert George;** San Benito  
B.S., Zoology, Texas A&M University, 1984
- Owen, Kaye Kip;** Pleasanton  
B.S., Oceanography, U.S. Naval Academy, 1975
- Patrick, Stephen Kyle;** Irving  
B.S., Basic Medical Sciences, Texas A&M University, 1986
- Pickett, Kathryn Ann;** Houston  
B.S., Basic Medical Sciences, Texas A&M University, 1986
- Presnal, Bradley Paul;** Bryan  
B.S., Biochemistry, Texas A&M University, 1984  
B.S., Basic Medical Sciences, Texas A&M University, 1986
- Robinson, Richard Dane;** Houston  
B.S., Biology, Texas A&M University, 1984  
B.S., Basic Medical Sciences, Texas A&M University, 1986
- Rose, Melanie Yarbrough;** Marlin  
B.S., Chemistry, Baylor University, 1975  
Ph.D., Biochemistry, Rice University, 1982
- Rose, Verna Morrils;** Dumas  
B.S., Biology, University of Texas at Arlington, 1977  
M.S., Biology, University of Texas at Arlington, 1984  
B.S., Basic Medical Sciences, Texas A&M University, 1986
- Ross, Lisa Rene Epps;** Houston  
B.S., Microbiology, Texas A&M University, 1980  
B.S., Basic Medical Sciences, Texas A&M University, 1986
- Safford, Susan Kay;** Midland  
B.A.S., Anthropology and Medical Microbiology, Stanford University, 1980
- Emergency Medicine  
Wayne State University; Detroit, Michigan
- Internal Medicine  
University of Wisconsin Hospital;  
Madison, Wisconsin
- Obstetrics/Gynecology  
Wilford Hall USAF Medical Center;  
Lackland AFB, Texas
- Psychiatry  
University of New Mexico; Albuquerque,  
New Mexico
- Obstetrics/Gynecology  
Northwest Florida Obstetrics/Gynecology  
Foundation Program; Pensacola,  
Florida
- Orthopedics  
University of Arkansas; Little Rock,  
Arkansas
- Obstetrics/Gynecology  
University of Texas at Houston; Houston,  
Texas
- Family Practice  
University of Texas at Houston; Houston,  
Texas
- General Surgery  
University of South Carolina School of  
B.S., Medicine; Columbia, South  
Carolina
- Family Practice  
University of Oklahoma Tulsa Medical  
College; Tulsa, Oklahoma
- Anesthesiology  
Scott and White Memorial Hospital;  
Temple, Texas
- Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas
- Obstetrics/Gynecology  
St. Joseph Hospital; Houston, Texas
- Pediatrics  
University of Utah; Salt Lake City, Utah



<b>Shin, Peter Bachel;</b> Dallas B.S., Aeronautical Engineering, Seoul National University, Korea, 1975	Family Practice University of California at Los Angeles Center of Health Sciences; Los Angeles, California
<b>Townsend, John Summerfield, IV;</b> Merkel B.S., Basic Medical Sciences, Texas A&M University, 1986	Family Practice University of Texas Southwestern Medical School, Henrick Medical Center; Abilene, Texas
<b>Tucker, Judy Carolyn Glover;</b> Midland B.A., English, Eastern New Mexico University, 1975 M.A., English, Eastern New Mexico University, 1976	Psychiatry Timberlawn Psychiatric Hospital; Dallas, Texas
<b>Tucker, Myrna Blanca;</b> San Antonio B.S., Biology, University of Texas at San Antonio, 1984 B.S., Basic Medical Sciences, Texas A&M University, 1986	Psychiatry University of Texas Health Science Center at San Antonio, Bexar County Hospital; San Antonio, Texas
<b>Villarreal, Marcelo;</b> Eagle Pass B.S., Basic Medical Sciences, Texas A&M University, 1986	
<b>Weber, Robert Alan, Jr.;</b> Cleveland, OH B.S., Biomedical Engineering, University of Pennsylvania, 1984	General Surgery Scott and White Memorial Hospital; Temple, Texas
<b>Wheeler, Robert Alan;</b> Dayton, OH B.A., Zoology, Miami University, Ohio, 1980	Internal Medicine Medical College of Virginia; Richmond, Virginia
<b>Wikoff, Catherine Lynnette;</b> Denton B.S., Nursing, Texas Woman's University, 1977 B.S., Basic Medical Sciences, Texas A&M University, 1986	Obstetrics/Gynecology Scott and White Memorial Hospital; Temple, Texas
<b>Zakala, Marina Lisa;</b> Jackson, MI B.A., Biomedical Ethics and Biology, Brown University, 1984	Psychiatry Baylor College of Medicine Program; Houston, Texas

### *Class of 1987*

<i>Name, Home City, and Degrees</i>	<i>Residency Appointment</i>
<b>Alling, Jefferson Bennett;</b> Possum Kingdom Lake B.S., Basic Medical Sciences, Texas A&M University, 1985	Family Practice University of Oklahoma Health Science Center; Oklahoma City, Oklahoma
<b>Andrews, Lawrence Wyn;</b> Lake Jackson University of Houston, No Degree	Family Practice Memorial Medical Center; Corpus Christi, Texas
<b>Andrus, Candye Renee;</b> Austin B.A., Biology, University of Texas at Austin, 1981 M.A., Microbiology, University of Texas at Austin, 1983	Pediatrics University of Wisconsin; Madison, Wisconsin
<b>*Ayers, Melanie Ann;</b> Copperas Cove B.S., Basic Medical Sciences, Texas A&M University, 1985	Obstetrics/Gynecology Scott and White Memorial Hospital; Temple, Texas

- Binderman, Judith Ellen;** Houston  
B.S., Material Science Engineering, Cornell University, 1983
- Blair, Donald Lavester;** Dallas  
B.S., Basic Medical Sciences, Texas A&M University, 1985
- Bledsoe, Maya Badachhape;** Houston  
B.A., Biology, Sociology, Behavioral Science, Rice University, 1981
- Buckner, Susan Harris;** University City  
B.S., Biology, Baylor University, 1982
- Caballero, Hugo Alberto;** Laredo  
B.S., Basic Medical Sciences, Texas A&M University, 1985
- Castiglioni, Aldo Joseph, Jr.;** Galveston  
B.A., Zoology, University of Texas at Austin, 1975  
Ph.D., Physiology, University of Texas Medical Branch at Galveston, 1980
- Clayton, Gary Randall;** Beaumont  
B.S., Zoology, Texas A&M University, 1978
- \*Davda, Rajesh Kumar;** Houston  
B.S., Basic Medical Sciences, Texas A&M University, 1985
- Fidone, George Steven;** Helotes  
B.A., Biology, University of Texas at Austin, 1983
- \*Glebel, Dan William;** Brenham  
B.S., Basic Medical Sciences, Texas A&M University, 1985
- Glebel, Shelley Cole;** Houston  
B.S., Zoology, Texas A&M University, 1984  
B.S., Basic Medical Sciences, Texas A&M University, 1985
- \*Hajek, Phillip David;** Auburn, Alabama  
B.S., Pre-Med, Auburn University, 1983
- \*Harrison, James Blake;** Baytown  
B.S., Basic Medical Sciences, Texas A&M University, 1985
- \*Hauck, Amy Patricia;** Austin  
B.S., Zoology, Texas A&M University, 1985
- Hearn, Donald Rena;** Los Angeles, California  
B.A., Human Biology, Stanford University, 1975
- Holden, John Patrick;** Thousand Oaks, California  
B.S., Sociology/Pre-Medicine, Brigham Young University, 1981
- Hrabal, Tanya Lynn;** Houston  
B.S., Zoology, Texas A&M University, 1981
- Anesthesiology  
Tulane University Hospital;  
New Orleans, Louisiana
- Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas
- Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas
- Surgery  
Marshall University School of Medicine;  
Huntington, West Virginia
- Psychiatry  
University of Texas at San Antonio;  
San Antonio, Texas
- Family Practice  
Medical College of Virginia;  
Richmond, Virginia
- Internal Medicine  
University of Florida Medical Center;  
Gainesville, Florida
- Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas
- Internal Medicine  
Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
- Obstetrics/Gynecology  
Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
- Orthopedics  
Louisiana State University;  
New Orleans, Louisiana
- Surgery  
Scott and White Memorial Hospital;  
Temple Texas
- Pediatrics  
Naval Hospital; Portsmouth, Virginia
- Family Practice  
San Jacinto Methodist Hospital;  
Baytown, Texas
- Obstetrics/Gynecology  
Albert Einstein Medical Center;  
Philadelphia, Pennsylvania

- Hudson, Michael Royce;** Bryan  
Texas A&M University, No Degree
- Johnson, Robert David;** Buda  
B.S., Zoology, Texas A&M University, 1983
- Killanski, Joseph Richard, Jr.;** Bedford  
B.S., Basic Medical Sciences, Texas A&M University, 1985
- Leeds, Timothy Gerard;** Houston  
B.S., Psychology, Texas A&M University, 1982
- Lichota, Derek Kent;** Norwalk, Connecticut  
B.S., Biology, University of Miami, 1982
- Loeffler, Paul William;** St. Louis Park, Minnesota  
B.M.E., University of Minnesota, 1982
- Luk, Stephen Shang-Yan;** South Pasadena, California  
B.S., Neuroscience, Texas Christian University, 1983
- Maresh, Robert David;** Houston  
B.A., Biology/English, Rice University, 1979  
M.S., Biology, University of Houston, 1984
- Mendel, Charles Dudley, Jr.;** Seabrook  
B.A., Chemistry, San Jacinto College, 1983  
B.S., Basic Medical Sciences, Texas A&M University, 1985
- Moloo, Nasiruddin;** Montreal, Canada  
Texas A&M University, No Degree
- Mynderse, Lance A.;** Houston  
B.S., Zoology, Duke University, 1974  
M.S., Pathology, Hahnemann University, 1982
- \*Newman, Keith David;** Rockwall  
B.S., Psychology, Texas A&M University, 1982  
B.S., Basic Medical Sciences, Texas A&M University, 1985
- \*Poetschke, Gretchen Rosanne;** Carrollton  
B.S., Basic Medical Sciences, Texas A&M University, 1985
- \*Rahm, Mark Douglas;** Temple  
B.S., Zoology, Texas A&M University, 1984
- \*Rutkowski, John Anthony;** Kirkwood, New York  
B.S., Basic Medical Sciences, Texas A&M University, 1985
- Sallis, Robert Edward;** Brea, California  
B.S., Science, U.S. Air Force Academy, 1982
- Schnitzer, Mark Steven;** Dallas  
B.S., Electrical Engineering, Washington University, 1981  
M.S., Electrical Engineering, Texas A&M University, 1986
- Pediatrics  
University of Arkansas for Medical Sciences; Little Rock, Arkansas
- Family Practice  
San Jacinto Methodist Hospital;  
Baytown, Texas
- Obstetrics/Gynecology  
Naval Hospital; Portsmouth, Virginia
- Obstetrics/Gynecology  
Wesley Medical Center; Wichita, Kansas
- Orthopedics  
Scott and White Memorial Hospital;  
Temple Texas
- Otolaryngology  
Louisiana State University;  
Shreveport, Louisiana
- Surgery  
Scott and White Memorial Hospital;  
Temple, Texas
- Psychiatry  
Tulane University Hospital;  
New Orleans, Louisiana
- Family Practice  
Scott and White Memorial Hospital;  
Temple, Texas
- Internal Medicine  
University of Iowa; Iowa City, Iowa
- Surgery  
Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
- Surgery  
Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
- Pediatrics  
Vanderbilt University;  
Nashville, Tennessee
- Orthopedics  
Scott and White Memorial Hospital;  
Temple, Texas
- Family Practice  
Memorial Medical Center;  
Corpus Christi, Texas
- Family Practice  
Kaiser Foundation Hospital;  
Fontana, California
- Neurosurgery  
Johns Hopkins Hospital;  
Baltimore, Maryland

- Silverman, Maxine Lee;** Sarasota, Florida  
B.S., Psychology, University of Florida, 1980  
M.A., Social and Behavioral Science,  
University of South Florida, 1981
- Smith-Blair, Gayle LaTreece;** Dallas  
B.S., Basic Medical Sciences, Texas A&M  
University, 1985
- \*Temple, Samuel Drew;** Paris  
B.S., Basic Medical Sciences, Texas A&M  
University, 1985
- Thomas, Elizabeth Harper;** Houston  
B.S., Biology, Baylor University, 1983
- Thomas, Haydn Mikel;** Billings, Montana  
B.S., Biology, University of Utah, 1979
- \*Truitt, Timmy Doyle;** Abilene  
B.S., Biology, Abilene Christian University,  
1982
- Wick, Lori L.;** Dallas  
B.A., Biology, Cornell University, 1981  
M.S., Physical Education, 1985
- Wong, Patrick;** Oakland, California  
B.A., Microbiology/Immunology, University of  
California at Berkeley, 1981
- Pediatrics  
Shands Hospital at the University of  
Florida; Gainesville, Florida
- Psychiatry  
Alton Ochsner Medical Foundation;  
New Orleans, Louisiana
- Orthopedics  
University of Arkansas for Medical  
Sciences; Little Rock, Arkansas
- Internal Medicine/Anesthesiology  
University of Kansas Medical Center;  
Kansas City, Kansas
- Psychiatry  
University of Kansas Medical Center;  
Kansas City, Kansas
- Radiology  
Mayo Graduate School of Medicine Mayo  
Clinic; Rochester, Minnesota
- Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas
- Psychiatry  
University of California at Davis Medical  
Center; Sacramento, California

### *Class of 1986*

- | <i>Name, Home City, and Degrees</i>  | <i>Residency Appointment</i>  |
|--|---|
| <b>*Bilhartz, David Lee;</b> Dallas<br>B.S., Basic Medical Sciences, Texas A&M<br>University, 1984   | Urology<br>Mayo Graduate School of Medicine Mayo<br>Clinic; Rochester, Minnesota                        |
| <b>Black, Karen Shipp;</b> Fort Worth<br>B.S., Biology, Texas A&M University, 1982<br>B.S., Basic Medical Sciences, Texas A&M<br>University, 1984      | Internal Medicine<br>Georgetown University Hospital;<br>Washington, D.C.                                |
| <b>*Buchanan, Charles Martin;</b> Irving<br>B.S., Pharmacy, University of Houston, 1975<br>B.S., Basic Medical Sciences, Texas A&M<br>University, 1984 | Internal Medicine<br>Medical College of Virginia Hospital;<br>Richmond, Virginia                        |
| <b>Campbell, Kevin Lance;</b> Ballinger<br>B.S., Biology, Angelo State University, 1982<br>B.S., Basic Medical Sciences, Texas A&M<br>University, 1984 | Medicine/Pediatrics<br>Northeastern Ohio Universities College of<br>Medicine; Youngstown, Ohio          |
| <b>Casper, Wayne Michael;</b> Austin<br>B.A., Economics, Rice University, 1980<br>M.A., Economics, University of Texas at Austin,<br>1982              | Internal Medicine<br>New England Deaconess Hospital<br>Harvard Medical School;<br>Boston, Massachusetts |
| <b>Dean, John Cannon;</b> Midland<br>B.S., Mechanical Engineering, Texas A&M<br>University, 1981   | Orthopedic Surgery<br>University of Utah Medical Center;<br>Salt Lake City, Utah                        |
| <b>*Durica, Sherrl Sutton;</b> Corpus Christi<br>B.S., Biology, Texas A&M University, 1978<br>M.S., Biology, Texas A&M University, 1982                | Internal Medicine<br>Scott and White Memorial Hospital;<br>Temple, Texas                                |

- Fife, Terry Douglas;** Scottsdale, Arizona .  
B.S., Chemistry, University of Arizona, 1982
- \*Frazier, Charles Richard;** Garland  
B.S., Microbiology, Texas A&M University, 1978  
M.S., Microbiology, Texas A&M University,  
1982  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984
- Frazier, Jane Ellen;** Richardson  
B.S., Psychology, Texas A&M University, 1979  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984
- Gold, Jay Alexander;** New York, New York  
B.A., Liberal Arts, St. John's College, 1971  
J.D., New York University School of Law, 1974  
M.P.H., Harvard University, 1977
- Gubbels, Jeffery Lynn;** Thompsons  
Texas A&M University, No Degree
- Guy, Ronald Mark;** Rapid City, South Dakota  
B.A., Chemistry, Baylor University, 1981
- Hall, Pamela Ann;** Corpus Christi  
B.S., Biology, Texas A&M University, 1976  
M.S., Management, Texas A&M University,  
1979
- Kennedy, Jill;** Weslaco  
B.S., Nursing, University of Texas School of  
Nursing, 1976
- \*Knudsen, John Marshall;** Temple  
B.B.A., Finance, University of Texas at Austin,  
1982  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984
- \*Mackan, Emmett Ridley;** Beaumont  
B.S., Chemical Engineering, Texas A&M  
University, 1979  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984
- McBride, Dan Gamble;** Arlington  
B.A., Chemistry, Trinity University, 1982
- \*McMillion, Janie Sue;** Waco  
B.S., Microbiology, Texas A&M University, 1980  
M.S., Veterinary Microbiology, Texas A&M  
University, 1982  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984
- McMullen, Kevin Michael;** Dunedin, Florida  
B.S., Biological Sciences, Florida Institute of  
Technology, 1981
- Internal Medicine  
University of California at Davis Medical  
Center; Sacramento, California
- General Surgery  
Scott and White Memorial Hospital;  
Temple, Texas
- Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas
- Internal Medicine  
St. Vincent's Medical Center;  
Bridgeport, Connecticut
- Obstetrics/Gynecology  
Scott and White Memorial Hospital;  
Temple, Texas
- Flexible  
Louisiana State University Hospital;  
Shreveport, Louisiana
- Transitional  
Memorial Medical Center;  
Corpus Christi, Texas
- Psychiatry  
Timberlawn Psychiatric Hospital;  
Dallas, Texas
- Radiology  
Mayo Graduate School of Medicine Mayo  
Clinic; Rochester, Minnesota
- General Surgery  
Scott and White Memorial Hospital;  
Temple, Texas
- Urology  
Tulane University Hospital;  
New Orleans, Louisiana
- Obstetrics/Gynecology  
Scott and White Memorial Hospital;  
Temple, Texas
- General Surgery  
Alton Ochsner Medical Foundation;  
New Orleans, Louisiana

**Miles, Patrick Paul;** Bedford  
Texas A&M University, No Degree

**\*Milman, Robert Michael;** Houston  
B.S., Psychology, Brown University, 1982

**Nguyen, Hung Trong;** Rockdale  
Texas A&M University, No Degree

**Pepper, Robert Thomas;** Beaumont  
B.S., Biology, Texas A&M University, 1982  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984

**Piwonka, Thomas Edward;** Caldwell  
B.S., Building Construction, Texas A&M  
University, 1978  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984

**\*Routh, Larry Keith;** Garland  
B.A., Chemistry, Baylor University, 1981

**Routh, Lisa Carole;** Alta Loma  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984

**Seldeman, Sandra Kay;** Austin  
B.B.A., Marketing, University of Texas at  
Austin, 1971

**Skiba, William Edward;** Miami, Florida  
A.B., Biochemical Sciences, Harvard  
University, 1974  
Ph.D., Biochemistry, University of Miami, 1980

**Smith, Bruce Kendall;** Temple  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984

**\*Strayhorn, John Michael;** Fort Worth  
B.S., Biology, Baylor University, 1982

**Summers, Arlene Kay;** Houston  
B.A., Biology, University of Texas at Austin,  
1982

**Uptergrove, Richard Wade;** Hico  
B.S., Biology, Tarleton State University, 1982  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984

**Vestal, James Clifton;** Rockwall  
B.S., Zoology, Texas A&M University, 1982  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984

**Von Der Porten, Kenneth Paul;** Pompton  
Lakes, New Jersey  
B.A., Psychology, University of Hartford, 1971  
M.A., Experimental Psychology, University of  
New Hampshire, 1974  
Ph.D., Physiological Psychology, University of  
New Hampshire, 1977

Internal Medicine  
Ohio State University Hospital;  
Columbus, Ohio

Radiology  
Scott and White Memorial Hospital;  
Temple, Texas

Internal Medicine  
Baptist Memorial Hospital University of  
Tennessee; Memphis, Tennessee

Family Practice  
Baylor College of Medicine;  
Houston, Texas

Anesthesiology  
St. Paul Medical Center  
University of Texas Southwestern  
Medical School; Dallas, Texas

Internal Medicine  
Mayo Graduate School of Medicine Mayo  
Clinic; Rochester, Minnesota

Psychiatry  
Mayo Graduate School of Medicine Mayo  
Clinic; Rochester, Minnesota

Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas

Psychiatry  
Louisiana State University Medical  
Center; New Orleans, Louisiana

General Surgery  
St. Joseph Hospital; Houston, Texas

Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas

Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas

Family Practice  
McLennan County Family Practice  
Program; Waco, Texas

Urology  
Scott and White Memorial Hospital;  
Temple, Texas

Psychiatry  
Hospitals of the University Health Center  
of Pittsburg; Pittsburg, Pennsylvania

**Weiss, Barbara Ann;** Nassau Bay  
B.S., Biology, Baylor University, 1982

**Zaphiris, Helen Alexandra;** Houston  
B.S., Basic Medical Sciences, Texas A&M  
University, 1984

Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas

Psychiatry  
University of Texas at San Antonio;  
San Antonio, Texas

### *Class of 1985*

#### *Name, Home City, and Degrees*

**Anderson, Margaret Lynn;** White Oak  
East Texas State University, No Degree

**\*Bickel, Alan Wyche;** Irving  
B.S. Biology, University of Texas at Austin,  
1977

**Bramhall, Joe Paul;** San Angelo  
B.S. Medicine, Texas A&M University, 1983

**Carlson, Russell Elliott;** Nederland  
B.S. Biochemistry, Texas A&M University, 1980  
B.S. Medicine, Texas A&M University, 1983

**Carman, Claire Mager;** Hempstead  
B.S. Biology, Texas A&M University, 1980  
B.S. Medicine, Texas A&M University, 1983

**Coleman, Carl Michele;** Bryan  
Texas A&M University, No Degree

**Coles, Stuart Lee;** San Antonio  
B.S. Medicine, Texas A&M University, 1983

**Cribbs, Carey Briscoe Congdon;** Saginaw  
B.S. Physical Education, University of Texas,  
1975  
M.S. Athletic Training, Indiana State University,  
1976  
B.S. Medicine, Texas A&M University, 1983

**\*Davis, Phillip Scott;** Houston  
B.S. Biology, University of Houston, 1976  
B.S. Medicine, Texas A&M University, 1983

**\*Douglas, Lani Kay;** Houston  
B.S. Medicine, Texas A&M University, 1983

**Fleeger, David Clark;** Houston  
B.S. Biology, Baylor University, 1981

**Freeman, Randolph Moehrl;** Belleville,  
Illinois  
B.S. Civil Engineering, University of Illinois,  
1973  
M.S. Civil Engineering, University of Illinois,  
1974

**Guerra, Michael Edward;** Austin  
B.S. Zoology, University of Texas, 1980

#### *Residency Appointment*

Pediatrics  
Baylor College of Medicine Affiliated  
Hospitals; Houston, Texas

Family Practice  
University of Texas Health Sciences  
Center at Tyler; Tyler, Texas

Orthopedic Surgery  
John Peter Smith Hospital;  
Fort Worth, Texas

General Surgery  
Mayo Clinic; Rochester, Minnesota

General Surgery  
Eastern Virginia Affiliated Hospitals;  
Norfolk, Virginia

General Surgery  
Methodist Hospital; Dallas, Texas

Pediatrics  
University of Texas at San Antonio  
Affiliated Hospitals;  
San Antonio, Texas

Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas

Internal Medicine  
Baylor College of Medicine Affiliated  
Hospitals; Houston, Texas

Family Practice  
John Peter Smith Hospital;  
Fort Worth, Texas

General Surgery  
Mayo Clinic; Rochester, Minnesota

Anesthesiology  
Scott and White Memorial Hospital;  
Temple, Texas

Ophthalmology  
Vanderbilt University Medical Center;  
Nashville, Tennessee

- Kessinger, William Andrew;** Jacksboro  
B.S. Microbiology, University of  
Texas-Arlington, 1980  
B.S. Medicine, Texas A&M University, 1983
- Laurel, Andrew Lynn;** San Antonio  
B.S. Pre-professional Studies, University of  
Notre Dame, 1981
- Lubrano, Vincent Michael;** Fort Worth  
B.S. Chemistry, Texas A&M University, 1980  
B.S. Medicine, Texas A&M University, 1983
- \*Malsky, Melba Lewis;** Winters  
B.A. English Literature, Rice University, 1973
- Marquardt, Michael Paul;** Houston  
B.S. Microbiology, Texas A&M University, 1978  
B.S. Medicine, Texas A&M University, 1983
- \*Maupin, Warren Bryan, II;** Dallas  
B.S. Chemical Engineering, Texas A&M  
University, 1969  
M.S. Physics, Air Force Institute of Technology,  
1976
- McCrary, Kathryn Diane;** Arlington  
B.S. Animal Science, Texas A&M University,  
1980
- McLaughlin, Roane Ham;** Colleyville  
B.S. Microbiology, University of  
Texas-Arlington, 1980
- Millan, Maria Eugenia;** Sweeny  
B.A. Biology, Texas A&M University, 1981  
B.S. Medicine, Texas A&M University, 1983
- Morris, Steven Michael;** Missouri City  
Texas A&M University, No Degree
- Rascoe, Terry Glenn;** Houston  
B.S. Biology, Baylor University, 1981
- Schmitt, Conrad Vernon;** San Jose, CA  
B.A. Psychology, San Jose St. University, 1974  
M.A. Psychology, San Jose St. University, 1976  
M.A. Zoology, University of Texas, 1980  
Ph.D. Science Education, University of Texas,  
1982  
B.S. Medicine, Texas A&M University, 1983
- Shaw, James Burr;** Houston  
B.A. Biology, University of Texas, 1981
- Shin, James Seung;** Dallas  
B.S. Medicine, Texas A&M University, 1983
- Solomon, Murray David;** Houston  
B.S. Economics, University of Houston, 1977  
M.A. Economics, University of Houston, 1979  
B.S. Medicine, Texas A&M University, 1983
- Terry, Gregory Morrell;** Baytown  
B.A. Biology, University of Texas, 1981
- Windsor, Robert Earl;** Dallas  
Texas A&M University, No Degree
- Pediatrics  
University of Oklahoma Health  
Sciences Center;  
Oklahoma City, Oklahoma
- Medicine  
Tripler Army Medical Center;  
Honolulu, Hawaii
- Internal Medicine  
Texas Tech University Affiliated  
Hospitals; Amarillo, Texas
- Leave of Absence
- Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas
- Radiology  
Scott and White Memorial Hospital;  
Temple, Texas
- Anesthesiology  
Baylor University Medical Center;  
Dallas Texas
- Obstetrics/Gynecology  
John Peter Smith Hospital;  
Fort Worth, Texas
- Obstetrics/Gynecology  
University of Arkansas for Medical  
Sciences; Little Rock, Arkansas
- General Surgery  
Mayo Clinic; Rochester, Minnesota
- Family Practice  
McLennan County Family Practice  
Program; Waco, Texas
- Psychiatry  
University of California (Davis)/  
Affiliated Hospitals;  
Sacramento, California
- Internal Medicine  
Mayo Clinic; Rochester, Minnesota
- Family Practice  
John Peter Smith Hospital;  
Fort Worth, Texas
- Pathology  
Baylor College of Medicine Affiliated  
Hospitals; Houston, Texas
- Family Practice  
Texas Tech University Affiliated  
Hospitals; Amarillo, Texas
- Physical Medicine and Rehabilitation  
University of Texas at San Antonio  
Affiliated Hospitals;  
San Antonio, Texas



*Class of 1984***Name, Home City, and Degrees**

**Agler, Karen Sue;** Irving  
B.S. Zoology, Texas A&M University, 1979  
B.S. Medicine, Texas A&M University, 1982

**Billr, Sule Kakize;** San Antonio  
B.S. Biology, Texas A&M University, 1980  
B.S. Medicine, Texas A&M University, 1982

**Cobb, Clark Howell III;** San Antonio  
B.S. Zoology, Texas A&M University, 1980  
B.S. Medicine, Texas A&M University, 1982

**Eckert, Edward Randolph;** Castroville  
B.S. Medical Technology, Texas A&M University, 1978  
B.S. Medicine, Texas A&M University, 1982

**Fife, Carolyn Esther;** Bryan  
B.S. Medicine, Texas A&M University, 1982

**Fitzsimon-Williams, Denise Irene;** San Antonio  
B.S. Medicine, Texas A&M University, 1982

**Hise, Joseph Henry;** Odessa  
Texas A&M University, No Degree

**Holland, Robert Leslie;** Walla Walla, Washington  
B.S. Electrical Engineering Washington State University, 1970  
M.S. Microbiology, Texas Tech University, 1976  
Ph.D. Biophysics, University of Texas Health Science Center at Dallas, 1980  
B.S. Medicine, Texas A&M University, 1982

**Tanner-Inman, Lynne Ellen;** Little Rock, Arkansas  
B.S.E. Biology, University of Arkansas, 1972  
M.Ed. Biology, University of Arkansas, 1973  
B.S. Medicine, Texas A&M University, 1982

**Inman, William Bufford;** Austin  
B.A. Chemistry, University of Texas, 1980  
B.S. Medicine, Texas A&M University, 1982

**Jaffe, Sydney Joy;** Elkins Park, Pennsylvania  
B.S. Biology, Princeton University, 1979

**\*Jeffries, Joel Travis;** Austin  
B.A. Liberal Arts, University of Texas, 1980  
B.S. Medicine, Texas A&M University, 1982

**Jennings, Anthony John;** Houston  
B.S. Medicine, Texas A&M University, 1982

**Kerr, Jeffrey Stuart;** Houston  
B.S. Electrical Engineering, Rice University, 1979

**Kluppel, Shannon Eugene Keith;** Houston  
B.S. Medicine, Texas A&M University, 1982

**Residency Appointment**

Internal Medicine  
Texas Tech Affiliated Hospitals;  
Lubbock, Texas

Family Practice  
University of Texas Southwestern  
Medical School Affiliated Hospitals;  
Wichita Falls, Texas

Family Practice  
Martin Army Community Hospital;  
Fort Benning, Georgia

Pathology  
Central Texas Medical Foundation at  
Brackenridge Hospital;  
Austin, Texas

Family Practice  
St. Paul Hospital; Dallas, Texas

Pediatrics  
Methodist Hospital of Indiana;  
Indianapolis, Indiana

Radiology  
Scott and White Memorial Hospital;  
Temple, Texas

Obstetrics/Gynecology  
University of South Dakota Affiliated  
Hospitals; Yankton, South Dakota

Psychiatry  
University of Texas Southwestern  
Medical School Affiliated Hospitals;  
Dallas, Texas

Internal Medicine  
Presbyterian Hospital of Dallas;  
Dallas, Texas

Internal Medicine  
University of Virginia Affiliated  
Hospitals; Roanoke, Virginia

Orthopedics  
University of Missouri Medical Center;  
Columbia, Missouri

Radiology  
University of Texas Medical Branch  
Hospitals; Galveston, Texas

Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas

Pediatrics  
Oklahoma Children's Memorial Hospital;  
Oklahoma City, Oklahoma

- Lind, Gregory Charles; Bandera**  
B.S. Geography, Sam Houston State University, 1979  
B.S. Medicine, Texas A&M University, 1982
- \*Manthely, Joseph Richard III; Dallas**  
University of Texas at Arlington, No Degree
- Martin, Alan William; Houston**  
B.S. Medicine, Texas A&M University, 1982
- McLaurin, Scott Sutton; Houston**  
B.S. Zoology, Texas A&M University, 1980  
B.S. Medicine, Texas A&M University, 1982
- McNair, David Paul; Athens**  
B.S. Chemistry, Tulane University, 1974  
M.S. Chemistry, North Texas State University, 1979
- Montamat, Stephen Craig; Clear Lake City**  
B.S. Medicine, Texas A&M University, 1982
- Mouser, Rebecca Elizabeth; Midland**  
B.S. Medicine, Texas A&M University, 1982
- Pegram, Langdon; De Land, Florida**  
B.S. Elementary Education, Stetson University, 1967  
B.A. English, Stetson University, 1967  
M.A. Counseling, Stetson University, 1972
- \*Probe, Robert Alan; Nassau Bay**  
B.S. Medicine, Texas A&M University, 1982
- Remenchik, Ellen Jean; Houston**  
B.A. Psychology, Texas A&M University, 1977
- Ross, Michael Delbert; Abilene**  
B.S. Medicine, Texas A&M University, 1982
- Shlossman, Phillip Aaron**  
B.S. Biology, Florida Institute of Technology, 1976  
M.S. Marine Fisheries, Texas A&M University, 1980
- Tuel, David Charles; Tyler**  
B.S. Chemical Engineering, University of Texas at Austin, 1977  
B.S. Medicine, Texas A&M University, 1982
- Tyler, Barbara Petrlni; Scranton, Pennsylvania**  
B.A. Physics, Cornell University, 1975
- Williams, Charles Dee; Palestine**  
B.S. Medicine, Texas A&M University, 1982
- Yatsu, John Shigeru; Honolulu, Hawaii**  
B.S. Biology, Rensselaer Polytechnic Institute, 1975  
B.S. Medicine, Texas A&M University, 1982
- Family Practice  
Montgomery County Medical Education Foundation; Conroe, Texas
- Family Practice  
John Peter Smith Hospital  
Fort Worth, Texas
- Transitional  
University of Arkansas College of Medicine; Little Rock, Arkansas
- General Surgery  
St. Joseph Hospital;  
Houston, Texas
- Family Practice  
Methodist Central Hospital;  
Dallas, Texas
- Internal Medicine  
Baylor College of Medicine Affiliated Hospitals; Houston, Texas
- Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas
- Pediatrics  
Mayo Clinic; Rochester, Minnesota
- Orthopedics  
Scott and White Memorial Hospital;  
Temple, Texas
- Internal Medicine  
Central Texas Medical Foundation at Brackenridge Hospital; Austin, Texas
- General Surgery  
Scott and White Memorial Hospital;  
Temple, Texas
- Obstetrics/Gynecology  
Wilmington Medical Center;  
Wilmington, Delaware
- Pediatrics  
University of Southern Alabama Affiliated Hospitals;  
Mobile, Alabama
- Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas
- Pediatrics  
Methodist Hospital of Indiana;  
Indianapolis, Indiana
- General Surgery  
University of Texas at Houston Affiliated Hospitals; Houston, Texas

*Class of 1983***Name, Home City, Degrees**

**Benold, Terrell Barnes;** Georgetown  
B.A. Biology/Psychology, Rice University, 1979

**Boucher, David Charles;** Dublin  
B.S. Biology, Tarleton State University, 1977  
B.S. Medicine, Texas A&M University, 1981

**Cunningham, Joe Hal;** Troup  
B.S. Medicine, Texas A&M University, 1981

**Dean, John Anderson;** Seymour  
B.S. Medicine, Texas A&M University, 1981

**Felts, Frank Terrell;** Houston  
B.S. Medicine, Texas A&M University, 1981

**Foster, Dayne Michele;** Houston  
B.S. Pharmacy, University of Texas at Austin, 1975  
B.S. Medicine, Texas A&M University, 1981

**Fraze, Richard Charles;** Houston  
B.S. Medicine, Texas A&M University, 1981

**\*Fusselman, Robert Edward;** Pearland  
B.S. Medicine, Texas A&M University, 1981

**\*Godwin, Gregory Charles;** Gordonville  
B.S. Medicine, Texas A&M University, 1981

**Herron, Richard Edward;** Lake Jackson  
B.S. Biology, Baylor University, 1981

**Holman, Steven Wayne;** Conroe  
B.S. Zoology, Texas A&M University, 1979  
B.S. Medicine, Texas A&M University, 1981

**Howard, Walter Kim;** Hawkins  
B.A. Biology, Texas A&M University, 1979  
B.S. Medicine, Texas A&M University, 1981

**Hutchinson, Lewis Ray;** Corpus Christi  
B.S. Biochemistry, Texas A&M University, 1978  
B.S. Medicine, Texas A&M University, 1981

**Jones, Phillip Wayne;** Houston  
B.S. Medicine, Texas A&M University, 1981

**\*Kitayama, Darryl Wesley;** Donna  
B.S. Medicine, Texas A&M University, 1981

**Klump, Delbert Craig;** Navasota  
B.S. Chemical Engineering, University of Texas at Austin, 1977  
B.S. Medicine, Texas A&M University, 1981

**Residency Appointment**

General Surgery  
Ochsner Medical Foundation;  
New Orleans, Louisiana

Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas

Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas

General Surgery  
Ochsner Medical Foundation;  
New Orleans, Louisiana

General Surgery  
Scott and White Memorial Hospital;  
Temple, Texas

Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas

General Surgery  
Mayo Graduate School of Medicine;  
Rochester, Minnesota

Postdoctoral Fellow  
Medical Biochemistry  
Texas A&M University;  
College Station, Texas

Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas

Family Practice  
University of Texas Southwestern  
Medical School; Wichita Falls, Texas

Obstetrics/Gynecology  
University of Tennessee Memorial  
Hospital; Knoxville, Tennessee

Diagnostic Radiology  
Scott and White Memorial Hospital;  
Temple, Texas

Otolaryngology  
Scott and White Memorial Hospital;  
Temple, Texas

General Surgery  
St. Joseph Hospital; Houston, Texas

General Surgery  
University of Oklahoma Medical Center;  
Tulsa, Oklahoma

Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas

- Mahaffey, Andrew Glenn;** Nassau Bay  
B.S. Zoology, Texas A&M University, 1979  
B.S. Medicine, Texas A&M University, 1981  
Obstetrics/Gynecology  
Scott and White Memorial Hospital;  
Temple, Texas
- Miller, Evelyn Elaine;** Oklahoma City,  
Oklahoma  
B.S. Mathematics, Northeastern State College,  
Oklahoma, 1973  
Psychiatry  
Oklahoma Memorial Hospital;  
Oklahoma City, Oklahoma
- Pitts, Suzanne;** Caldwell  
B.S. Medicine, Texas A&M University, 1981  
Anesthesiology  
Scott and White Memorial Hospital;  
Temple, Texas
- \*Powell, Kenneth Ray;** San Antonio  
B.S. Biology, Texas A&M University, 1979  
B.S. Medicine, Texas A&M University, 1981  
Internal Medicine  
University of Arkansas College of  
Medicine Hospital;  
Little Rock, Arkansas
- Powell, Lisa Gilliland;** Temple  
B.S. Medicine, Texas A&M University, 1981  
Obstetrics/Gynecology  
University of Arkansas College of  
Medicine Hospital;  
Little Rock, Arkansas
- Preston, Rebecca Ann;** Abilene  
B.A. Biology, Oakland University, 1979  
Rochester, Michigan  
Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas
- Rayburn, William Lowell;** Houston  
B.S. Biology, Texas A&M University, 1978  
B.S. Medicine, Texas A&M University, 1981  
Obstetrics/Gynecology  
Scott and White Memorial Hospital;  
Temple, Texas
- Reeves, John Winston;** Center  
B.A. Natural Sciences, University of Texas at  
Austin, 1978  
Internal Medicine  
Louisiana State University Affiliated  
Hospitals; Shreveport, Louisiana
- Roach, Dee Alan;** Snyder  
B.S. Medicine, Texas A&M University, 1981  
Family Practice  
Texas Tech Regional Health Sciences  
Center; Amarillo, Texas
- Sander, Hans Michael;** Austin  
B.S. Zoology, Texas A&M University, 1980  
B.S. Medicine, Texas A&M University, 1981  
Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas
- Sheehan, Kathleen Sue;** Oklahoma City,  
Oklahoma  
B.A. Philosophy, Southern Methodist  
University, 1971  
M.S. Psychology, Texas A&M University, 1976  
Psychiatry  
Timberlawn Psychiatric Hospital;  
Dallas, Texas
- Shelton, Mark McGregor;** Arlington  
B.S. Biology, Baylor University, 1979  
Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas
- Sherry, Paul David;** Littleton, Colorado  
B.S. Life Sciences, United States Air Force  
Academy, 1974  
Internal Medicine  
Wilford Hall USAF Medical Center;  
San Antonio, Texas
- Sissons, Philip Lawrence;** Borger  
B.A. Psychology, University of St. Thomas,  
1976  
Anesthesiology  
Ohio State University Hospital;  
Columbus, Ohio
- Sloan, Jr., Charles Matteson;** Dallas  
B.A. Biology, Trinity University, 1979  
Anesthesiology  
St. Paul Hospital; Dallas, Texas
- Walker, Randall Dean;** Corpus Christi  
B.S. Biology, Texas A&M University, 1975  
M.S. Environmental Toxicology, University of  
Texas Medical Branch, 1979  
Family Practice  
Baylor College of Medicine  
Affiliated Hospitals; Houston, Texas  
B.S. Medicine, Texas A&M University, 1981

*Class of 1982***Name, Home City, and Degrees**

**Akers, Kyle Clayton;** Texas City  
B.S. Zoology, Texas A&M University, 1979  
B.S. Medicine, Texas A&M University, 1980

**Axel, Neil Jeffrey;** Houston  
B.S. Medicine, Texas A&M University, 1980

**Boyd, Matthew Lee;** Pasadena  
B.S. Medicine, Texas A&M University, 1980

**Brady, William Henry III;** San Antonio  
B.A. Biology, Our Lady of the Lake University  
of San Antonio, 1978

**Brister, Marilyn Kay;** Bend  
B.S. Medicine, Texas A&M University, 1980

**Chambless, Terry Craig;** Hewitt  
B.S. Biology, Baylor University, 1975  
M.S. Biochemistry, Texas A&M University, 1977

**Clanton, Craig Warren;** Houston  
B.S. Medicine, Texas A&M University, 1980

**David, David Robert;** Bryan  
B.S. Medicine, Texas A&M University, 1980

**David, John Lewis Jr.;** Dalhart  
B.S. Zoology, Texas A&M University, 1976

**Dean, Thurston Evans III;** Midland  
B.S. Zoology, Texas A&M University, 1977  
B.S. Medicine, Texas A&M University, 1980

**Dodds, Russell Elliott;** Dallas  
B.S. Medicine, Texas A&M University, 1980

**Dragutsky, Michael Steven;** McAllen  
B.S. Medicine, Texas A&M University, 1980

**Duhon, Craig Robert;** Whitehouse  
B.S. Medicine, Texas A&M University, 1980

**Feinstein, Robert;** Galveston  
B.E.E. Electrical Engineering, Pratt Institute,  
1965  
M.S. Bioengineering, University of Michigan,  
1967  
M.S. Systems Engineering, University of  
Michigan, 1968  
Ph.D. Bioengineering, University of Michigan,  
1970

**Henderson, James Porter;** Houston  
B.S. Medicine, Texas A&M University, 1980

**Residency Appointment**

General Surgery  
Ochsner Foundation  
New Orleans, Louisiana

Anesthesiology  
Scott and White Memorial Hospital;  
Temple, Texas

General Surgery  
St. Joseph's Hospital; Houston, Texas

Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas

Family Practice  
Medical Center of Georgia;  
Columbus, Georgia

Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas

Family Practice  
Mayo Graduate School of Medicine;  
Rochester, Minnesota

Family Practice  
Madigan Army Medical Center;  
Fort Lewis, Washington

Obstetrics/Gynecology  
University of Tennessee Memorial;  
Knoxville, Tennessee

General Surgery  
Baylor College of Medicine;  
Houston, Texas

Flexible  
University of Tennessee Memorial;  
Knoxville, Tennessee

Internal Medicine  
Baptist Memorial;  
Memphis, Tennessee

Orthopedics  
Scott and White Memorial Hospital;  
Temple, Texas

Anesthesiology  
Washington University School of  
Medicine; Saint Louis, Missouri

Pediatrics  
Vanderbilt University;  
Nashville, Tennessee

**Holguin, Mark Hudson;** San Antonio  
B.S. Medicine, Texas A&M University, 1980

**Holmes, Ernest Samuel IV;** Dallas  
B.S. Biology, University of Texas at Arlington,  
1978  
B.S. Medicine, Texas A&M University, 1980

**Hood, Jan Leenette;** White Oak  
B.S. Medicine, Texas A&M University, 1980

**Lindberg, Orrin Henry;** San Antonio  
B.S. Medicine, Texas A&M University, 1980

**Matherne, Gaynell Paul Jr.;** Houston  
B.S. Medicine, Texas A&M University, 1980

**Morgan, Edward Allen;** Bryan  
B.S. Biology, Texas A&M University, 1978

**Perry, Pamela Sue;** Fort Worth  
B.S. Biology, Texas A&M University, 1977

**Ryan, Patrick Brian;** Houston  
B.S. Medicine, Texas A&M University, 1980

**Smith, Fannie Elkins;** Huntsville  
B.S. Biology, Sam Houston State, 1971  
M.A. Biology, Sam Houston State, 1973  
Ph.D. Biology, Texas Tech University, 1977  
B.S. Medicine, Texas A&M University, 1980

**Smyers, David Duane;** Houston  
B.S. Medicine, Texas A&M University, 1980

**\*Urban, Randall James;** Victoria  
B.S. Biochemistry, Texas A&M University, 1978  
B.S. Medicine, Texas A&M University, 1980

**Warren, Harry Lee Jr.;** Bellaire  
Texas A&M University, No Degree

**\*White, Joseph Gregory;** Rosebud  
B.S. Medicine, Texas A&M University, 1980

**Wynn, Ralph Thomas;** Beaumont  
B.S. Medicine, Texas A&M University, 1980

Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas

Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas

Family Practice  
Louisiana State University;  
Shreveport, Louisiana

Psychiatry  
University of California;  
Irvine, California

Pediatrics  
Oklahoma Memorial Hospital;  
Oklahoma City, Oklahoma

Obstetrics/Gynecology  
Baylor College of Medicine;  
Houston, Texas

Obstetrics/Gynecology  
Scott and White Memorial Hospital;  
Temple, Texas

Anesthesiology  
University of Texas Medical Branch;  
Galveston, Texas

Internal Medicine  
University of Texas Medical Branch;  
Galveston, Texas

Emergency Medicine  
Akron General Hospital; Akron, Ohio

Internal Medicine  
Mayo Graduate School of Medicine;  
Rochester, Minnesota

Internal Medicine  
Walter Reed Army Medical Center;  
Washington, D.C.

Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas

Internal Medicine  
Mayo Graduate School of Medicine;  
Rochester, Minnesota

## *Class of 1981*

### ***Name, Home City, and Degrees***

**Anderson, Garry Michael;** Stephenville  
B.S. Biology, Tarleton State University, 1977  
B.S. Medicine, Texas A&M University, 1980

**Barnard, Jeffrey Joseph;** Houston  
B.S. Medicine, Texas A&M University, 1979

### ***Residency Appointment***

Pathology  
Scott and White Memorial Hospital;  
Temple, Texas

Surgery  
Scott and White Memorial Hospital;  
Temple, Texas

- Byrd, Richard Lee;** Houston  
B.S. Medicine, Texas A&M University, 1979
- Cantu, Julius Francisco, Jr.;** Groves  
B.S. Medicine, Texas A&M University, 1979
- Field, Timothy Edward;** Plainview  
B.S. Zoology, Texas A&M University, 1977
- Fischer, Stephen Carl;** Houston  
B.S. Medicine, Texas A&M University, 1979
- Frank, Bryan Lee;** Richardson  
B.S. Medicine, Texas A&M University, 1979
- Franklin, Jay Olen;** Tyler  
B.S. Medicine, Texas A&M University, 1979
- Friedman, Alice Diane;** Houston  
B.S. Medicine, Texas A&M University, 1979
- \*Hall, Jeffrey Timothy;** Seabrook  
B.S. Medicine, Texas A&M University, 1979
- Hall, Jhon Ulrey;** Pasadena  
B.S. Medicine, Texas A&M University, 1979
- \*Hodges, John Carlton;** Dublin  
B.S. Zoology, Texas A&M University, 1979  
B.S. Medicine, Texas A&M University, 1979
- \*Holder, Pamela Dawn;** Albany  
B.S. Medicine, Texas A&M University, 1979
- Krebs, Henry John III;** Deer Park  
B.S. Medicine, Texas A&M University, 1979
- Latson, Gary Wayne;** Amarillo  
B.S. Medicine, Texas A&M University, 1979
- Lawson, David Scott;** Houston  
B.S. Medicine, Texas A&M University, 1979
- Lockett, Kerry Lane;** Zephyr  
B.S. Medicine, Texas A&M University, 1979
- Luedecke, Robert Alan;** Corpus Christi  
B.S. Medicine, Texas A&M University, 1979
- Matthews, Thomas Keller III;** Houston  
B.S. Medicine, Texas A&M University, 1979
- Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas
- Surgery  
St. Elizabeth's Hospital;  
Youngstown, Ohio
- Obstetrics/Gynecology  
Scott and White Memorial Hospital;  
Temple, Texas
- Psychiatry  
University of Texas Affiliated Hospitals;  
Houston, Texas
- Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas
- Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas
- Internal Medicine  
Roanoke Memorial Hospital;  
Roanoke, Virginia
- Flexible, Orthopedic Surgery  
Baylor College of Medicine Affiliated  
Hospitals; Houston, Texas
- Flexible, Internship  
St. Joseph's Hospital; Houston, Texas
- Internal Medicine  
Scott and White Memorial Hospital;  
Temple, Texas
- Anesthesiology  
Scott and White Memorial Hospital;  
Temple, Texas
- Radiology — Diagnostic  
University of Texas at San Antonio  
Teaching Hospitals;  
San Antonio, Texas
- Anesthesiology  
Duke University Medical Center;  
Durham, North Carolina
- Family Practice  
John Peter Smith Hospital;  
Fort Worth, Texas
- Family Practice  
Regional Academic Health Center;  
Lubbock, Texas
- Anesthesiology  
University of Texas at San Antonio  
Teaching Hospitals;  
San Antonio, Texas
- Anesthesiology, VA Internship  
Scott and White Memorial Hospital Olin E.  
Teague Veterans' Center;  
Temple, Texas

**Naul, Lea Gill III; Rockdale**  
B.S. Medicine, Texas A&M University, 1979

**\*Ogden, Paul Edward; Abilene**  
B.S. Zoology, Texas A&M University, 1979  
B.S. Medicine, Texas A&M University, 1979

**\*Orth, Scott Thomas; Houston**  
B.S. Medicine, Texas A&M University, 1979

**Ozier, Gary Pearson; Burnet**  
B.S. Zoology, Texas A&M University, 1979  
B.S. Medicine, Texas A&M University, 1979

**\*Rudd, Susan; Houston**  
B.S. Medicine, Texas A&M University, 1979

**Schmidt, Paul Alan; Fort Worth**  
B.S. Medicine, Texas A&M University, 1979

**Scroggins, Daniel James; Houston**  
B.S. Medicine, Texas A&M University, 1979

**Sicillo, Mark Stephen; College Station**  
B.S. Medicine, Texas A&M University, 1979

**\*Tessem, Joy Hawkins; Houston**  
B.S. Medicine, Texas A&M University, 1979

**\*Vogt, Joel Alan; Pasadena**  
B.S. Medicine, Texas A&M University, 1979

**Watson, Patricia Kay; Richardson**  
B.S. Medicine, Texas A&M University, 1979

**Webb, Leslie Beth; Odessa**  
B.S. Medicine, Texas A&M University, 1979

**Wheeler, Thomas Milloy; Seguin**  
B.S. Medicine, Texas A&M University, 1979

Radiology — Diagnostic  
Scott and White Memorial Hospital;  
Temple, Texas

Family Practice  
McLennan County Family Practice  
Program; Waco, Texas

Flexible, Orthopedic Surgery  
Scott and White Memorial Hospital;  
Temple, Texas

Family Practice  
University of Texas Health Science  
Center; Wichita Falls, Texas

Pediatrics  
Mayo Graduate School of Medicine;  
Rochester, Minnesota

Family Practice  
University of South Alabama Medical  
Center Hospital and Clinics;  
Mobile, Alabama

Anesthesiology  
Scott and White Memorial Hospital;  
Temple, Texas

Pediatrics  
Scott and White Memorial Hospital;  
Temple, Texas

Flexible, Internship  
St. Joseph's Hospital; Houston, Texas

Psychiatry  
Duke University Medical Center;  
Durham, North Carolina

Psychiatry  
Mayo Graduate School of Medicine;  
Rochester, Minnesota

Pediatrics  
Children's Medical Center;  
Dallas, Texas

Internal Medicine  
Alton Ochsner Medical Foundation;  
New Orleans, Louisiana



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# *CAMPUS ENVIRONMENTS*

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## COLLEGE STATION

Texas A&M University is located in Bryan-College Station, Texas. Bryan-College Station is one of the fastest growing metropolitan areas in the United States. Currently, 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 forty parks, six swimming pools, two golf courses, and numerous tennis courts. In addition, there are a number of private and University recreational facilities.

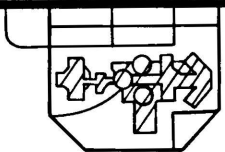
## TEMPLE

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.

SOUTH 31st STREET

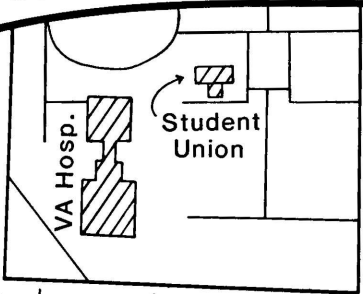


SCOTT & WHITE HOSPITAL

LOOP 360 - HWY 190

AVENUE M

SOUTH 1st STREET



VA Hosp.

Student Union

HWY 36



TEMPLE CAMPUS

**Texas A&M University**

College Station, TX 77843

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, 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 Apartments

7 Teague Place

(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 451

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

**COLLEGE OF MEDICINE**

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College Station, Texas 77843-0100

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