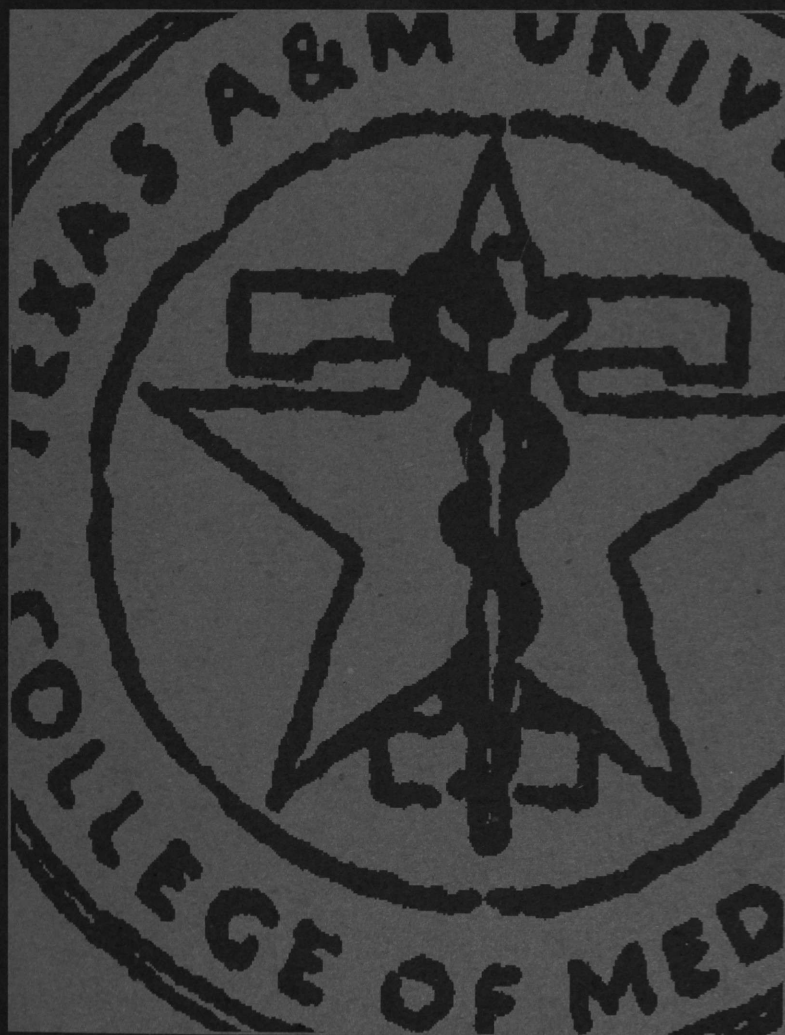


College of Medicine Bulletin

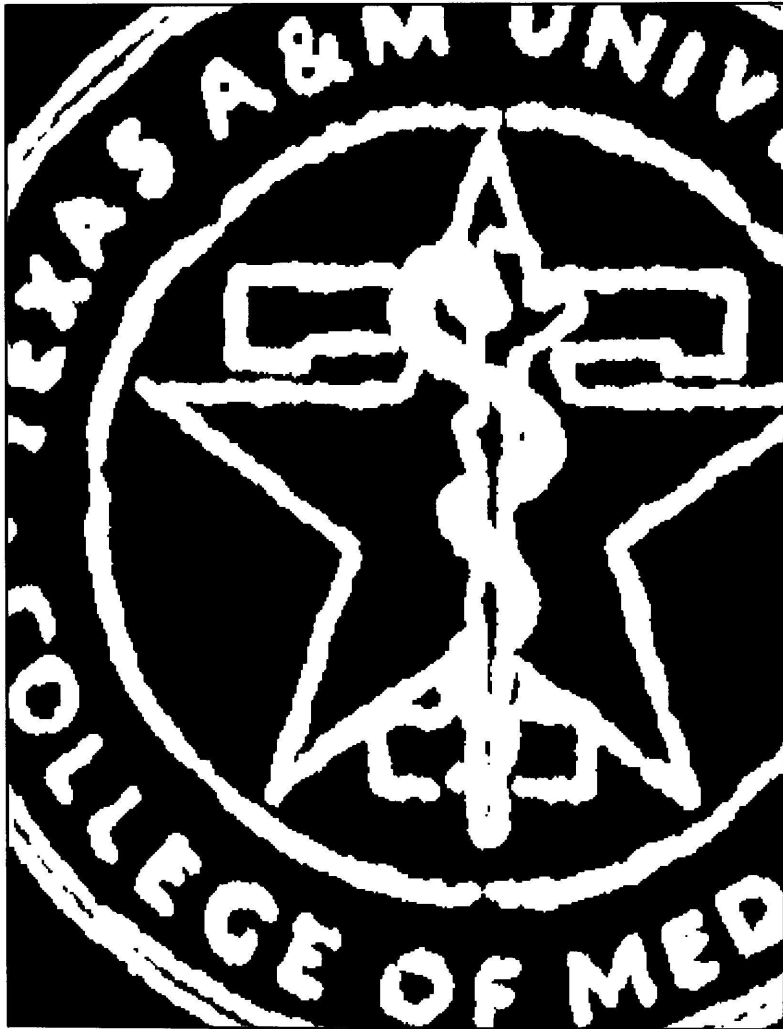
1994-1996



Texas A&M University Health Science Center

College of Medicine Bulletin

1994-1996



Texas A&M University Health Science Center

College of Medicine Bulletin Number 6
Texas A&M University, August 1994

Published by the Office of the Dean of the College of Medicine, Texas A&M University, College Station, Texas 77843-1114.
Editor: Lynn Terry, Office of Information Technology, Biomedical Communications Group. Photography: Larry Wadsworth, Office of Information Technology, Biomedical Communications Group, unless otherwise noted.

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ACADEMIC CALENDAR

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

TEXAS A&M UNIVERSITY COLLEGE OF MEDICINE

Academic Calendar For M-1 and M-2 Students: 1994-95 College Station Campus

M-1 Students

Fall Semester 1994

August 8-11	Orientation.
August 12	Classes begin.
November 24-25	THANKSGIVING HOLIDAY.
December 9	Last day of classes.
December 12-16	Fall Semester final examinations.
December 19-	HOLIDAYS.
January 1, 1995	

Spring Semester 1995

January 2	First day of classes.
January 16	MARTIN LUTHER KING HOLIDAY.
March 13-17	SPRING HOLIDAY.
May 5	Last day of classes.
May 8-12	Spring Semester final examinations.

M-2 Students**Fall Term 1994**

August 22	First day of classes.
November 11	Last day of classes.
November 14-18	Fall Term final examinations.
November 21-25	THANKSGIVING HOLIDAY.

Winter Term 1994-95

November 28	First day of classes.
December 19-	HOLIDAYS.
January 1, 1995	
January 2	Classes resume.
January 16	MARTIN LUTHER KING HOLIDAY.
March 3	Last day of classes.
March 6-10	Winter Term final examinations.
March 13-17	SPRING HOLIDAYS.

Spring Term 1995

March 20	First day of classes.
May 19	Last day of classes.
May 22-26	Spring Term final examinations.
June 14-15	USMLE Step 1.

Academic Calendar For M-3: 1994-95 Class of 1996

Week Date (First Day)	Week Date (First Day)
ORIENTATION/ACLS 0. June 27, 1994 1. July 5 2. July 11 3. July 18 4. July 25 5. August 1 6. August 8 END OF 6 WEEK CLERKSHIPS	27. January 2, 1995 28. January 9 29. January 16 30. January 23 31. January 30 32. February 6 END OF 6 WEEK CLERKSHIPS
7. August 15 8. August 22 9. August 29 10. September 5 11. September 12 12. September 19 END OF 6 AND 12 WEEK CLERKSHIPS	33. February 13 34. February 20 35. February 27 36. March 6 37. March 13 38. March 20 END OF 6 AND 12 WEEK CLERKSHIPS
13. September 26 14. October 3 15. October 10 16. October 17 17. October 24 18. October 31 END OF 6 WEEK CLERKSHIPS	39. March 27 40. April 3 41. April 10 42. April 17 43. April 24 44. May 1 END OF 6 WEEK CLERKSHIPS
19. November 7 20. November 14 21. November 21 22. November 28 23. December 5 24. December 12 END OF 6 AND 12 WEEK CLERKSHIPS	45. May 8 46. May 15 47. May 22 48. May 29 49. June 5 50. June 12 END OF 6 AND 12 WEEK CLERKSHIPS AND END OF ACADEMIC YEAR
25. December 19-Vacation Week 26. December 26-Vacation Week	

Academic Calendar For M-4: 1994-95 Class of 1995

Module	Week	Date (Monday)	Module	Week	Date (Monday)
VACATION (OPTIONAL)	1.	June 20, 1994	VACATION (OPTIONAL)	28.	December 26
I.	2.	June 27	VII.	29.	January 2, 1995
	3.	July 4		30.	January 9
	4.	July 11		31.	January 16
	5.	July 13		32.	January 23
II.	6.	July 25	VIII.	33.	January 30
	7.	August 1		34.	February 6
	8.	August 8		35.	February 13
	9.	August 15		36.	February 20
BECOMING A CLINICIAN (Biostat./Epi./Humanities/Jurisprudence)	10.	August 22	SPRING BREAK	37.	February 27
USMLE STEP II			USMLE STEP II		March 1, 2
USMLE		August 31 & September 1	IX.	38.	March 6
11.		August 29		39.	March 13
				40.	March 20
				41.	March 27
III.	12.	September 5	X.	42.	April 3
	13.	September 12		43.	April 10
	14.	September 19		44.	April 17
	15.	September 26		45.	April 24
IV.	16.	October 3	XI.	46.	May 1
	17.	October 10		47.	May 8
	18.	October 17		48.	May 15
	19.	October 24		49.	May 22
V.	20.	October 31	BECOMING A CLINICIAN		
	21.	November 7	(Jurisprudence/ACLS)		
	22.	November 14	50.		May 29
	23.	November 21			
VI.	24.	November 28	GRADUATION		June 3, 1995
	25.	December 5			
	26.	December 12			
	27.	December 19			

**Academic Calendar For
M-1 and M-2 Students: 1995-96
College Station Campus
(Tentative Schedule)**

M-1 Students

Fall Semester 1995

August 7-10	Orientation.
August 11	Classes begin.
November 23-24	THANKSGIVING HOLIDAY.
December 8	Last day of classes.
December 11-15	Fall Semester final examinations.
December 18-	HOLIDAYS.
January 1, 1996	

Spring Semester 1996

January 2	First day of classes.
January 15	MARTIN LUTHER KING HOLIDAY.
March 18-22	SPRING HOLIDAY.
May 3	Last day of classes.
May 6-10	Spring Semester final examinations.

M-2 Students**Fall Term 1995**

August 21	First day of classes.
November 10	Last day of classes.
November 13-17	Fall Term final examinations.
November 20-24	THANKSGIVING HOLIDAY.

Winter Term 1995-96

November 27	First day of classes.
December 18-	HOLIDAYS.
January 1, 1996	
January 2*	Classes resume.
January 15	MARTIN LUTHER KING HOLIDAY.
March 11-15	Winter Term final examinations.
March 18-22	SPRING HOLIDAYS.

Spring Term 1996

March 25	First day of classes.
May 24	Last day of classes.
May 27-31	Spring Term final examinations.
June 14-15	USMLE Srep 1.
August 30-31	USMLE Step 2.

***These dates are not finalized.**

Academic Calendar For M-3: 1995-96 Class of 1997

Week Date (First Day)	Week Date (First Day)
ORIENTATION/ACLS 0. June 26, 1995 1. July 3 2. July 10 3. July 17 4. July 24 5. July 31 6. August 7 END OF 6 WEEK CLERKSHIPS	27. January 1, 1996 28. January 8 29. January 15 30. January 22 31. January 29 32. February 5 END OF 6 WEEK CLERKSHIPS
7. August 14 8. August 21 9. August 28 10. September 4 11. September 11 12. September 18 END OF 6 AND 12 WEEK CLERKSHIPS	33. February 12 34. February 19 35. February 26 36. March 4 37. March 11 38. March 18 END OF 6 AND 12 WEEK CLERKSHIPS
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19. November 6 20. November 13 21. November 20 22. November 27 23. December 4 24. December 11 END OF 6 AND 12 WEEK CLERKSHIPS	45. May 6 46. May 13 47. May 20 48. May 27 49. June 3 50. June 10 END OF 6 AND 12 WEEK CLERKSHIPS AND END OF ACADEMIC YEAR
25. December 18-Vacation Week 26. December 25-Vacation Week	

Academic Calendar For M-4: 1995-96 Class of 1996

Module	Week	Date (Monday)	Module	Week	Date (Monday)
VACATION 1. (OPTIONAL)		June 19, 1995	VACATION (OPTIONAL)	28.	December 25
				29.	January 1, 1996
I.	2.	June 26	VII.	30.	January 8
	3.	July 3		31.	January 15
	4.	July 10		32.	January 22
	5.	July 17		33.	January 29
II.	6.	July 24	VIII.	34.	February 5
	7.	July 31		35.	February 12
	8.	August 7		36.	February 19
	9.	August 14		37.	February 26
BECOMING A CLINICIAN (Biostat./Epi./Humanities/Jurisprudence)			IX.	38.	March 4
	10.	August 21	USMLE STEP II		March 6-7
USMLE STEP II				39.	March 11
USMLE		Aug. 30 & Aug. 31		40.	March 18
	11.	August 28		41.	March 25
III.	12.	September 4	X.	42.	April 1
	13.	September 11		43.	April 8
	14.	September 18		44.	April 15
	15.	September 25		45.	April 22
IV.	16.	October 2	XI.	46.	April 29
	17.	October 9		47.	May 6
	18.	October 16		48.	May 13
	19.	October 23		49.	May 20
V.	20.	October 30	BECOMING A CLINICIAN (Jurisprudence/ACLS)		
	21.	November 6		50.	May 27
	22.	November 13	GRADUATION		June 1, 1996
	23.	November 20			
VI.	24.	November 27			
	25.	December 4			
	26.	December 11			
	27.	December 18			

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 two years of the medical curriculum.

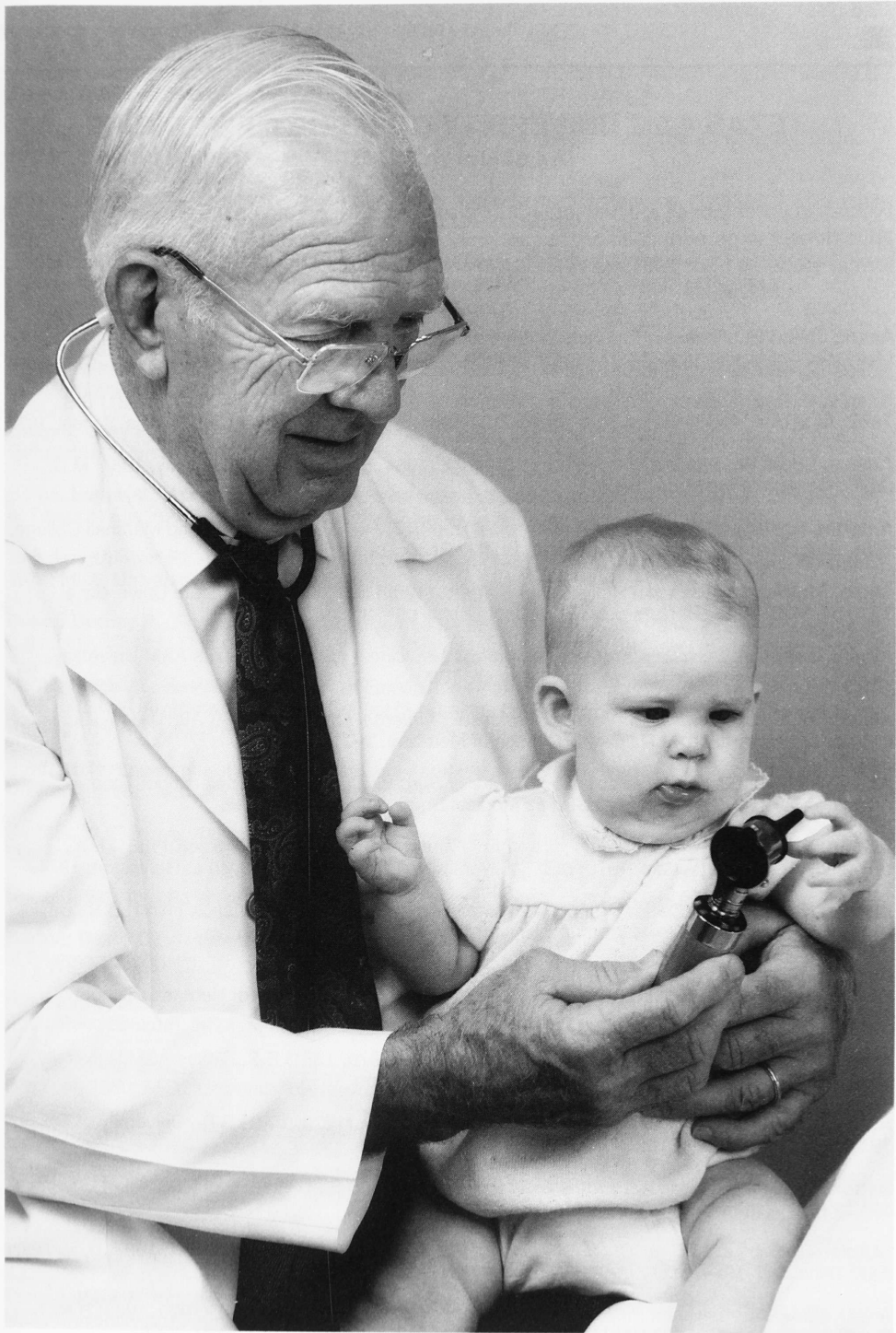
The program of instruction for the Doctor of Medicine degree consists of a four year curriculum and is fully accredited by the Liaison Committee on Medical Education. The first two years of instruction takes place in College Station, Texas, on the campus of Texas A&M University. The remaining two years 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.

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.



Larry Wadsworth

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

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

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

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

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

Ahlgren, E. Warner, *Professor of Anesthesiology*. (1977, 1981) B.S., Franklin and Marshall College, 1958; M.D., State University of New York, Buffalo School of Medicine, 1962.

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

Albers, James H., *Assistant Professor of Internal Medicine*. (1992) B.S., Texas A&M University, 1984; M.D., University of Texas Medical Branch, 1988.

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.

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

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

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

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

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

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

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

***Appleton, Margaret P.**, *Assistant Professor of Obstetrics and Gynecology*. (1991, 1992) B.S., Texas A&M University, 1984; M.D., Texas A&M University College of Medicine, 1988.

Arber, Daniel A., *Assistant Professor of Pathology and Laboratory Medicine*. (1990, 1993) B.S., Texas A&M University, 1983; M.D., University of Texas Health Sciences Center, 1986.

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

Armstrong, Robert B., *Professor of Medical Physiology and of Health and Kinesiology.* (1992) B.S., Hastings College, 1962; M.S., Washington State University, 1970; Ph.D., 1973.

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

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

Averitt, William M., *Assistant Professor of Family and Community Medicine.* (1993) B.S., University of Texas at Austin, 1980; D.O., Texas College of Osteopathic Medicine, 1990.

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

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

Badger, Gary R., *Assistant Professor of Surgery.* (1993) B.S., Norwich University, 1966; D.D.S., Georgetown University, 1970; M.S., University of Missouri at Kansas City, 1977.

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

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

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

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

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

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

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

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

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

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

Bastron, Robert D., *Professor of Anesthesiology.* (1994) B.A., University of Iowa, 1960; M.D., 1964.

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

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

Baxley, Paul J., *Assistant Professor of Internal Medicine.* (1993) B.S., University of Arkansas, 1970; M.D., University of Arkansas for Medical Sciences, 1974.

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

Becker, Kenneth G., *Assistant Professor of Internal Medicine.* (1994) B.S., Texas Christian University, 1978; M.S., University of Texas at Houston, 1981; M.D., University of Texas Medical Branch, 1988.

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

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

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

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

Benavides, Richard A., *Assistant Professor of Surgery.* (1993) B.S., Virginia Military Institute, 1977; M.D., University of Texas Southwestern Medical School, 1981.

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

Berigan, Elizabeth C., *Assistant Professor of Internal Medicine.* (1993) B.S., University of Nebraska Lincoln, 1984; M.D., 1989.

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

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

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

Black, Dorris B., *Clinical Assistant Professor of Pediatrics.* (1994) B.S., Texas A&M University, 1982; M.D., University of Texas Health Science Center, San Antonio, 1986.

Black, Samuel H., *Professor of Medical Microbiology and Immunology.* (1975, 1982) B.S., Lebanon Valley College, 1952; M.S., University of Michigan, 1958; Ph.D., 1961.

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

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

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

Boese, C. Kent, *Assistant Professor of Surgery.* (1992) B.S., University of Wyoming, 1984; M.D., University of South Dakota Medical School, 1988.

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

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

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

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

Bonds, Sheila G., *Assistant Professor of Obstetrics and Gynecology.* (1991) B.S., Baylor University, 1983; M.D., University of Texas Medical School at San Antonio, 1987.

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

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

Verdonk, Carlos A., *Professor of Internal Medicine*. (1981, 1994) B.S., Universite Notre-Dame de la Paix (Belgium), 1969; M.D., Rijksuniversiteit, Ghent (Belgium), 1973.

Verheyden, Charles N., *Professor of Surgery*. (1981, 1992) B.A., University of Texas, 1968; Ph.D., University of Texas Medical Branch at Galveston, 1973; M.D., 1973.

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

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

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

Wagner, Thomas J., *Assistant Professor of Family and Community Medicine*. (1993) B.S., University of Texas at Austin, 1986; M.D., University of Texas Medical School at Houston, 1990.

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

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

Wajima, Takeshi, *Professor of Internal Medicine*. (1985, 1992) B.S., Kanazawa Pharmaceutical College (Japan), 1952; M.D., University of Kanazawa School of Medicine (Japan), 1960; Ph.D., Yamaguchi Medical School (Japan), 1966.

Walker, Stephen C., *Assistant Professor of Internal Medicine*. (1986) B.S., North Texas State University, 1977; M.D., University of Texas Medical School at Houston, 1983.

Wallace, Tracy I., *Professor of Internal Medicine*. (1977, 1981) B.S., University of Kentucky, 1946; M.D., University of Cincinnati College of Medicine, 1949.

Walsh, Ronald E., *Professor of Internal Medicine and of Surgery*. (1979, 1989) B.S., Bowling Green State University, 1957; M.D., Ohio State University College of Medicine, 1961.

Ward, William E., *Professor of Medical Physiology and College Registrar.* (1975, 1991) A.B., Ohio University, 1950; M.A., Duke University, 1952; Ph.D., Kent State University, 1967.

Wardell, Ferman N., *Instructor in Surgery.* (1986) B.S., University of Texas, 1974; M.A., 1976.

Warner, Michael R., *Assistant Professor of Surgery.* (1988) B.A., Abilene Christian University, 1977; M.S., 1978; D.D.S., University of Texas Health Science Center at San Antonio, 1982.

Wasser, Jeremy S., *Assistant Professor of Medical Physiology and of Veterinary Physiology and Pharmacology.* (1993) M.S., University of Florida, 1979; Ph.D., Indiana University, 1985.

Watson, Linley E., *Professor of Internal Medicine.* (1979, 1984) B.A., University of Kansas, 1962; M.D., University of Kansas School of Medicine, 1966.

Watson, R. Bruce, *Assistant Professor of Family and Community Medicine.* (1987) B.S., University of Texas at Arlington, 1975; M.D., University of Texas Medical Branch at Galveston, 1979.

Waugh, David E., *Professor of Surgery.* (1981) B.S., University of Dayton, 1951; M.D., Ohio State University College of Medicine, 1955.

Waxman, Jeffrey A., *Assistant Professor of Surgery.* (1988) B.S., Yale University, 1976; M.D., University of Texas Medical School at San Antonio, 1980.

Way, James L., *Professor of Medical Pharmacology and Toxicology.* (1982) B.A., University of California, 1951; Ph.D., George Washington University, 1955.

Weed, John M., III, *Clinical Associate Professor of Family and Community Medicine.* (1981) B.A., Texas Tech University, 1968; M.D., University of Texas Medical Branch at Galveston, 1972.

Weinblatt, Jack S., *Clinical Associate Professor of Family and Community Medicine.* (1982) M.D., Baylor College of Medicine, 1951.

Weinblatt, James S., *Clinical Assistant Professor of Internal Medicine.* (1982) B.S., University of Texas at Austin, 1975; M.D., University of Texas Medical School at San Antonio, 1979.

Weir, Michael R., *Professor of Pediatrics.* (1993) B.A., Harvard College, 1965; M.D., University of Texas Medical School, Galveston, 1969.

***Weiss, Barbara A.**, *Assistant Professor of Internal Medicine.* (1991) B.S., Baylor University, 1982; M.D., Texas A&M University College of Medicine, 1986.

Welch, C. Charles, *Associate Professor of Internal Medicine.* (1979, 1981) B.S., Northwestern University, 1952; M.D., Northwestern Medical School, 1955.

Welch, Thomas K., *Assistant Professor of Family and Community Medicine.* (1993) B.S., Stephen F. Austin State University, 1985; M.D., University of Texas Medical School at Houston, 1990.

Weldon, David R., *Assistant Professor of Internal Medicine.* (1989) B.S., University of Texas at Arlington, 1979; M.D., Texas Tech Health Sciences Center School of Medicine, 1984.

Wells, Lawrence H., *Clinical Assistant Professor of Family and Community Medicine.* (1985) B.S., Texas A&M University, 1977; M.D., University of Texas Medical School at San Antonio, 1980.

West, James R., *Professor and Head of Human Anatomy and Medical Neurobiology.* (1993) B.A., Wichita State University, 1971; Ph.D., University of California at Irvine, 1975.

Westfall, Mark D., *Assistant Professor of Emergency Medicine.* (1993) B.S., Western Illinois University, 1983; D.O., Chicago College of Osteopathic Medicine, 1987.

Westwick, Thomas J., *Assistant Professor of Internal Medicine.* (1991) A.A., Okaloosa-Walton Junior College, 1977; B.S., Florida State University, 1982; M.D., University of Florida, 1985.

***White, Joseph G.**, *Associate Professor of Internal Medicine.* (1987, 1994) 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 L.**, *Assistant Professor of Pediatrics*. (1994) B.A., Cornell University, 1981; M.S., Texas A&M University, 1985; M.D., Texas A&M University College of Medicine, 1987.
- Wilkerson, Mark H.**, *Clinical Assistant Professor of Surgery*. (1990) B.S., Texas A&M University, 1981; M.D., University of Texas Southwestern Medical School, 1985.
- Wilkinson, James T.**, *Associate Professor of Internal Medicine*. (1981, 1985) B.S., Lamar University, 1972; M.D., University of Texas Medical Branch at Galveston, 1976.
- Williams, Charlie D.**, *Assistant Professor of Pediatrics*. (1993) M.D., Texas A&M University Health Science Center, 1984.
- Williams, Kathleen F.**, *Assistant Professor of Internal Medicine*. (1985) M.D., University of Texas Medical Branch at Galveston, 1978.
- Williams, Troy H.**, *Professor of Internal Medicine*. (1983, 1985) B.A., Virginia Military Institute, 1960; M.D., Medical College of Virginia, 1964.
- Willie, Glen R.**, *Assistant Professor of Internal Medicine*. (1981) B.A., University of Chicago, 1969; M.S., University of Minnesota, 1976; M.D., University of Minnesota School of Medicine, 1976.
- Willoughby, Frederick W.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1991) B.S., University of Alabama, 1977; M.S., University of Tennessee, 1981; Ph.D., Texas Tech University, 1985.
- Wilson, Van G.**, *Associate Professor of Medical Microbiology and Immunology*. (1983, 1989) B.S., Georgia Institute of Technology, 1975; Ph.D., Case Western Reserve University, 1980.
- Wincek, Thomas J.**, *Associate Professor of Obstetrics and Gynecology*. (1984, 1993) B.S., University of Minnesota, 1968; M.S., 1970; Ph.D., University of Utah College of Medicine, 1974; M.D., Washington University School of Medicine, 1977.
- Wiprud, Robert M., Jr.**, *Assistant Professor of Family and Community Medicine*. (1988) B.S., College of Great Falls, 1976; M.D., Creighton University School of Medicine, 1980.
- Womack, James E.**, *Professor of Medical Biochemistry and Genetics and of Veterinary Pathology*. (1991) B.S., Abilene Christian College, 1964; Ph.D., Oregon State University, 1968.
- Woods, Bryan T.**, *Professor of Internal Medicine and Psychiatry and Behavioral Science*. (1993) M.D., University of Virginia Health Science Center, 1967.
- Worchel, Jason**, *Assistant Professor of Psychiatry and Behavioral Science*. (1993) B.A., University of Texas at Austin, 1971; M.D., Southwestern Medical School, Dallas, 1975.
- Wright, Paul A.**, *Assistant Professor of Surgery*. (1990) B.A., Kansas State, 1964; M.D., University of Kansas, 1968.
- Wright, Steven M.**, *Assistant Professor of Radiology*. (1989) B.S., University of Illinois, 1980; M.S., 1981; Ph.D., 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.
- Wurster, John C.**, *Assistant Professor of Surgery*. (1991) B.A., Lawrence College, 1960; M.D., Northwestern University Medical School, 1964.
- *Wuthrich, Paul W.**, *Clinical Assistant Professor of Surgery*. (1993) B.S., Texas A&M University, 1987; M.D., Texas A&M University College of Medicine, 1989.
- Yandell, Paul M.**, *Assistant Professor of Obstetrics and Gynecology*. (1988) B.S., New Mexico State University, 1974; M.S., 1977; M.D., University of New Mexico School of Medicine, 1984.
- 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, Keith A., *Assistant Professor of Psychiatry and Behavioral Science.* (1989, 1993) B.S., Baylor University, 1981; M.S., University of Texas at Austin, 1986; Ph.D., 1990.

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.

Yuan, Yuan, *Assistant Professor of Surgery and of Medical Physiology.* (1994) M.D., First Military Medical College, Guangzhou, (China), 1983; Ph.D., Second Military Medical School, Shanghai (China), 1988.

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

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



Larry Wadsworth

GENERAL INFORMATION

TEXAS A&M UNIVERSITY

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

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

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

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

TEXAS A&M UNIVERSITY COLLEGE OF MEDICINE

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

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

The 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, the Olin E. Teague Veterans' Center, and at Darnell Army Community Hospital in Killeen.

The College of Medicine has established a record for excellence in both medical education and research. In 1991, the Texas A&M University System Board of Regents approved that the College of Medicine be structured as a health science center and ratified the designation of the institution as the Texas A&M University Health Science Center. This growth, however, has not altered the College's commitment to provide an environment which promotes integrity, compassion and excellence in its future physicians and scientists. An emphasis on broad based instruction in the medical sciences produces individuals with the knowledge, expertise and vision to meet the challenges facing modern medicine.

INSTITUTIONAL OBJECTIVES

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

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

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 Health Science Center 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 programs of the Departments of Veteran's Affairs and of Defense, and local private or public health care agencies.

ADMISSION FOR MEDICAL STUDENTS

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

Applicants must have completed their premedical college work in a fully accredited college or university in the United States. Most entering students have completed a baccalaureate degree before enrolling. However, some applicants are enrolled with 90 semester hours of college work; exceptional applicants may be considered with 60 semester hours at a fully accredited college or university in the United States. Each year approximately 48 new students are enrolled. The small class size permits each student to receive individual attention in both the basic science and clinical experiences.

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

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

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

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

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

In addition, for MCAT scores to become a part of your application materials, you must have scores reported *directly* to the TAMU College of Medicine Office of Admissions. *The MCAT must have been taken no earlier than four (4) years before the expected date of enrollment.*

ADMISSION FOR GRADUATE STUDENTS

Applicants normally are admitted to the program only to pursue the Doctor of Philosophy degree. The Doctor of Philosophy degree program requires a minimum of 96 semester hours. Master of Science degree candidates must complete a minimum of 32 semester hours credit. The College of Medicine also offers a combined M.D./Ph.D. program. At the time of admission, selected students may enroll in both the graduate program for the Doctor of Philosophy degree in the medical sciences and in the program for the Doctor of Medicine degree. Alternatively, they may enroll in another graduate program at Texas A&M simultaneously with studies toward the Doctor of Medicine degree.

Prerequisites

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

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

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

The Application Process

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

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

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

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



Larry Wadsworth

STUDENT FINANCIAL AID

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

The first step in the financial aid process is to complete a Free Application for Federal Student Aid (FAFSA) as soon as possible after January 1 in the year of expected enrollment.

Students accepted to the College of Medicine and who apply for financial aid are considered for all forms of aid for which they are eligible. More detailed information is provided when applicants interview and when they are accepted to the College of Medicine.

EXPENSES FOR MEDICAL STUDENTS

The expenses listed in this section are estimates and are subject to change. The expenses listed below are calculated for a typical medical student enrolled in the standard College of Medicine program for academic year 1994-1995. Expenses for subsequent years may be different. Nonresident tuition is three times the resident tuition.

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

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

Estimated Academic Costs

College Station Campus

(Years 1 and 2)

*Tuition (statutory amount regardless of course load)

	Fall Term	Spring Term	Annual Total
Resident	\$3,275.00	\$3,275.00	\$ 6,550.00
Fees	600.00	600.00	1,200.00
Books and Supplies	<u>700.00</u>	<u>700.00</u>	<u>1,400.00</u>
Total Academic Costs	\$4,575.00	\$4,575.00	\$ 9,150.00

Estimated Room and Board

Total	\$3,199.00	\$3,199.00	<u>\$ 6,398.00</u>
Estimated Annual Cost for Residents in Years 1 and 2			\$15,548.00

Estimated Academic Costs

Temple Campus

(Years 3 and 4)

*Tuition (statutory amount regardless of course load)

	Fall Term	Spring Term	Annual Total
Resident	\$3,275.00	\$3,275.00	\$ 6,550.00
Fees	195.00	195.00	390.00
Books and Supplies	<u>588.00</u>	<u>588.00</u>	<u>1,176.00</u>
Total Academic Costs	\$4,058.00	\$4,058.00	\$ 8,116.00

Estimated Room and Board

College of Medicine student apartments at Temple range in cost from \$130.00 per month to \$245.00 per month with water paid.

Total	\$4,000.00	\$4,000.00	<u>\$ 8,000.00</u>
Estimated Annual Cost for Residents in Years 3 and 4			\$16,116.00

WITHDRAWAL FROM THE UNIVERSITY

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

REFUNDS

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

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

Fall and Spring Terms

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

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

UNPAID CHECKS

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

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

CASH NEEDS

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

ACADEMIC RULES AND REGULATIONS

Student Handbook

Students are provided a copy of the Texas A&M University Health Science Center College of Medicine Student Handbook. This handbook is the official statement 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, professional attributes and other activities applicable to that course. The proportionate weight of each factor is set by the department administering the course. The basis upon which the final grade is determined is announced in writing by the third class meeting and is not changed during the academic year.

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

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

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

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

Professionalism

Students entering a formal medical education program are expected to uphold and adhere to the ethical and behavioral standards of the profession of medicine. The development and maintenance of a professional attitude is an ongoing responsibility of each student. Evaluation of professional behavior is an integral part of the curriculum and it will be a factor in assigning grades and determining promotion, retention or dismissal.

DEGREE INFORMATION

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

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 3.5 or above in their professional medical curricula 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 semester. The Helen Salyer Anderson Award, the most prestigious award given by the College of Medicine, is presented at commencement to the outstanding graduate.

The Doctor of Philosophy Degree

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

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

Traditionally, degrees in basic medical sciences have been awarded in clearly subdivided disciplines such as anatomy, biochemistry, microbiology, pathology, pharmacology and physiology. However, the boundaries separating these disciplines have become less distinct because of the necessity for interdisciplinary collaboration in biomedical research. Although medical schools increasingly require their faculty members and medical researchers to have a broad education in medical sciences, most graduate programs continue to use traditional curricula restricted to fairly narrow departmental lines. The graduate program in medical sciences at Texas A&M University is designed to remedy this deficiency by bridging traditional disciplines through both course work and research.

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

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

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

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

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

CURRICULUM

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

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

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

The courses included in each year are as follows:

First Year

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

Second Year

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

Third Year

Required Clerkships:

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

Required Courses:

- Principles of Radiology

Fourth Year

Required Clerkships: 6 weeks

- Neurology
- Alcohol & Drug Dependence Program

Electives: 32 weeks

Didactics: 2 weeks

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

GRADUATE MEDICAL EDUCATION

Graduate medical education, which encompasses numerous programs of formal specialty and subspecialty training and education, is required to become board certified in a medical specialty. The programs require from three to seven years of clinical education subsequent to receiving the M.D. degree as required by 26 medical specialty review committees that govern and accredit them. The Texas A&M College of Medicine - Scott and White programs participate in the National Residency Matching Program to fill its residency positions while the College of Medicine affiliated Emergency Medicine residency program at Darnall Army Community Hospital utilizes the military selections system.

Scott and White Memorial Hospital has sponsored graduate medical education programs since the 1920s and currently has greater than 200 residents and fellows in training. In several programs affiliated hospitals are utilized for training including the Veterans medical centers in Temple and Waco, Darnall Army Community Hospital at Fort Hood, Texas, Ben Taub and Shriners Hospitals in Houston and others. Currently the Texas A&M College of Medicine - Scott & White residency programs include: anesthesiology, emergency medicine, family practice, general surgery, internal medicine, obstetrics and gynecology, ophthalmology, orthopaedic surgery, pathology, pediatrics, plastic surgery, psychiatry, radiology and urology. Subspecialty or fellowship programs include: cardiovascular disease, endocrinology, diabetes and metabolism, gastroenterology, hematology, hematopathology, oncology, and pulmonary disease.

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

LEADERSHIP IN MEDICINE

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

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

STUDENT GOVERNANCE

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

Students from each class are appointed to the standing committees on Curriculum and Admissions.

STUDENT AFFAIRS

Office of Student Affairs and Admissions

The Office of Student Affairs and Admissions is responsible for assisting students with academic, personal and social matters and functions as a point of reference for general information, counseling, student records, student health insurance, financial aid and graduation procedures. The staff is eager to assist students with questions or problems.

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 in Temple. The apartments range in size from efficiencies to large two bedroom units. For more information, contact the Student Apartment Manager at (817) 773-0513 or the Office of Student Affairs. Off-campus private housing is also an option.

Student Health Care Plan

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

Liability Insurance

All second, third and fourth year medical students are required to have liability insurance prior to working with patients. The cost is nominal (\$150/year as of 1994) and applications and payments must be processed through the Office of Student Affairs and Admissions prior to June 15th each year.

Psychological Counseling

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

The College of Medicine also offers personal counseling to its medical students for a limited period at no cost to the student. Students who select counselors other than those provided by the College of Medicine must pay for counseling themselves. Students whose problems require prolonged or more in-depth psychotherapies, or who have psychiatric emergencies requiring immediate stabilization, must bear any cost of their therapies that is not covered by their insurance policies.

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

The Associate Dean for Student Affairs and Admissions, College Station
The Assistant Dean for Student Affairs, Temple.

Academic Counseling

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

Tutoring

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

Minority Affairs

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

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

Special Opportunities for Disadvantaged Students

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

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

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

The Bridge to Medicine Program for Minority/Disadvantaged College Students (BTM) provides minority college premedical students an intensive six week academic enrichment program to reinforce premedical basic science knowledge, to augment performance on the Medical College Admissions Test (MCAT), and to recruit students who show the desire for medicine as a career and the potential to gain admissions to medical school. The program also encourages and helps affirm the students' decisions to pursue a career in medicine, increases their repertoire of study skills, enhances their ability to articulate their goals and reasons for pursuing a career in medicine, and depicts the realities of medical education and the medical profession.

The Hispanic Center of Excellence (HCOE) is designed to facilitate the adjustment and the retention of Hispanic students and underrepresented minorities attending the College of Medicine. It is also an active recruiting agent for the College of Medicine, identifying and encouraging Hispanic students interested in pursuing medicine as a career. The Center is working with the Universities South Texas sister institutions to motivate, assist, and recruit Hispanic students to the College of Medicine. Other activities include a Medical Spanish elective, lectures on Hispanic health problems and research, and an open house program for local high schools, particularly the Bryan High School for the Human Sciences.

STUDENT ORGANIZATIONS AND HONOR SOCIETIES

Student Organizations

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

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

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

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

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

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

The Organization of Student Representatives was created to incorporate medical students into the activities and governance of the Association of American Medical Colleges (AAMC). While all students are actually members of OSR only one official and one alternate representative may be elected from each school. Representatives are asked to attend regional and national AAMC meetings.

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 Joe H. Reynolds 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 Human Anatomy and Medical Neurobiology, 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 Clinical Campus

The Clinical campus of the College of Medicine consists of the Scott and White Memorial Hospital and Clinic, the Olin E. Teague Veterans' Center, and Darnall Army Community Hospital.

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, of 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, and the Scott, Sherwood and Brindley Foundation, Scott and White Clinic and the Scott and White Health Plan. Scott and White Memorial Hospital is a nonprofit hospital operating 463 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 offers skilled nursing beds, geriatric, and alcohol and drug rehabilitation services. The Scott and White Clinic staff, all faculty members in the College of Medicine, is composed of about 416 physicians and non-physician scientists who practice in virtually every recognized medical specialty. Scott and White is a tertiary care center that serves central Texas. In addition, patients are referred to Scott and White from throughout Texas, the Southwest and Mexico.

Scott and White maintains 11 regional clinics in Killeen, McGregor, Moody, Hewitt, Waco, Gatesville, Taylor, Belton, Bellmead and College Station, Texas. The Scott and White Clinic in College Station, opened in 1986, is staffed by more than 50 physicians in 23 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 at the Santa Fe Center in Temple.

The Olin E. Teague Veterans' Center serves veterans in a 35 county primary service area in central Texas. The Teague Center, which was originally opened in 1942 as the McCloskey General Army Hospital, is located on a 185 acre site one mile south of downtown Temple.

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

complex was completed in 1990. Plans are now underway for another significant addition, a \$50 million, 300 bed replacement building.

The Olin E. Teague Veterans' Center is currently authorized to operate 510 hospital beds, 120 nursing home beds, and 408 domiciliary beds. Admissions total more than 8,500, and the outpatient clinics log more than 200,000 visits annually. Its annual operating budget is more than \$93 million and approximately 1,400 people are employed at the center.

Almost 80 physicians and other professionals from the staff of the center are faculty members of the College of Medicine. Texas A&M and the Veterans Administration jointly support several medical research projects conducted by faculty members to improve veterans' health care. A medical research laboratory building at the center is available to Texas A&M researchers and students.

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

Darnall Army Community Hospital at Fort Hood (between the cities of Killeen and Copperas Cove) opened in April, 1965. It was the first of three permanent Army hospitals of the 200-300 bed-size to open. Constructed in the latest military design of that time, the original building cost \$6,151,700 and was furnished with a \$6 million inventory of equipment. The building consisted of a basement and five floors with 250,000 square feet of space, providing medical service for 285 bed patients.

By 1978, the Fort Hood population entitled to medical care (soldiers, their family members and retirees) had soared to 160,000. To meet the increasing needs for medical care, a massive renovation and addition project was designed. The construction project began April 3, 1979, and when completed in 1984, the \$50 million renovation doubled the original size and brought the hospital into compliance with the National Fire Protection Association, Occupational Safety and Health Act, and Joint Commission on Accreditation of Hospital standards.

Today, Darnall encompasses over 500,000 square feet with a bed capacity of 264. There are eight intensive care beds, 91 surgical beds, 22 pediatric beds, 44 bassinet beds, 40 psychiatric beds, 17 labor and delivery beds, and 42 post-partum beds. The hospital staff is composed of 689 civilian workers and 678 military personnel. Its operating budget for fiscal year 1994 is \$133.5 million. The hospital's area of responsibility extends to 175 counties north of Austin, serving a population of 344,000. Nearly half of those patients live within 40 miles of the hospital. There are 2,593 clinic visits to the speciality clinics and 10 troop medical clinics throughout Fort Hood. Darnall delivers more babies than any hospital in the Department of Defense, averaging 10 per day.

Hospital services, physicians and administrative staff communicate through the Composite Health Care System. CHCS is a fully integrated hospital information system that connects all departments, wards and outlying clinics and integrates their information with computerized patient files. The hospital recently installed a mobile telemetry unit.

Other Facilities

The College of Medicine is also affiliated with the following clinical institutions in Texas: Veterans Affairs medical centers in Waco and Marlin, the A.P. Beutel Health Center at Texas A&M, Brazos Valley Medical Center, St. Joseph's Hospital and Health Center, Planned Parenthood of Brazos County in College Station, Grimes Memorial Hospital in Navasota, St. Jude Hospital in Brenham and Madison County Hospital in Madisonville.

LIBRARY FACILITIES

Medical Sciences Library

This professional research library is located across from the College of Veterinary Medicine and adjacent to the College of Medicine. Its specialized collection of biomedical books and journals is used by the College of Medicine and the College of Veterinary Medicine and other A&M faculty and students. The Medical Sciences Library's collection holds over 100,000 volumes of journals and books in print and microform. The library currently receives 2,000 subscriptions to American and foreign biomedical periodicals.

The Medical Sciences Library, with the hospital libraries at Scott & White and the Olin E. Teague Veteran's Center in Temple, form the Texas A&M University Consortium of Medical Libraries, sharing resources, providing telefacsimile transmission of documents between libraries, and supporting information services to the College of Medicine's Temple campus.

Online access to literature in the biomedical and health sciences is available through National Library of Medicine, BRS, Dialog and other database vendors. MEDLINE and other specialized databases are available in the library on CD-ROM. The current five years of MEDLINE also are available through the TexSearch service, which can be accessed through the University computer network. Passwords are available from the Medical Sciences Library. Professional staff provide reference services as well as instruction in database searching and methods of managing biomedical information.

The library is open 99 hours each week and has an open stack arrangement. Its public catalog is available both in the library and by dial-up access. Books are loaned for two weeks; journals do not circulate. Circulation is computerized and a Medical Sciences Library card is required to check out materials.

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

Learning Resources Unit

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

Temple Campus Libraries

The libraries of the Olin E. Teague Veterans' Center and the Scott & White Memorial Hospital extend library privileges to Texas A&M University medical students. The Teague library consists of a collection of 5,330 books, 600 audiovisuals and 400 current journals. The Scott & White library contains a collection of 8,960 books and over 980 current journal subscriptions.

College of Medicine Media Center, Temple Campus

The Media Center, located in the Student Union Building at the Olin E. Teague Veterans' Center, houses 900 self-assisted instructional audiovisual programs and 400 basic medical reference books for the clinical sciences in an open stack system. The services provided by this center are similar to those of the LRU on the College Station campus including a microcomputer lab, audiovisual Ciba slide collection and residency information. The Media Center is open 83 hours per week with study facilities restricted to use by students and faculty of the College of Medicine.

Sterling C. Evans Library

Texas A&M University's principal research collections, with more than 2 million volumes, 4 million microforms and 13,000 serials, are housed in the Sterling C. Evans Library at the center of the Texas A&M University campus.

OFFICE OF INFORMATION TECHNOLOGY

The Office of Information Technology provides comprehensive computing and communications support for the College of Medicine's teaching, research, administrative, and public service efforts. The department directs the information technology services, providing both information services and media design and production of traditional and new media forms, including imaging, medical illustration, publication design, video production, interactive multimedia, and computer visualization. The department also provides support for the College's microcomputer network and information system.

The department includes three components. The Telecommunications Group provides communications and computing support, the Biomedical Communications Group provides media production, and the Information Environment Lab participates in interdisciplinary research projects that explore the application and effects of new media forms.

Telecommunications Group

The Telecommunications Group supports and maintains the sophisticated computer network which links all College of Medicine departments at the Temple and College Station campuses. This network facilitates communication for administrative, research and teaching activities, enabling high-speed data exchange between the College's computers and access to Internet, the global computer network. This group also develops and maintains the College's enterprise information system, a distributed relational database which supports teaching, research and administrative functions.

This group also operates and maintains the College's teleconferencing and distance learning systems. The College Station 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 and Clinic, both in Temple. The Veterans Administration hospitals in Waco and Marlin also are accessible through this system. The local cable television system and the Trans-Texas Video Network also are linked to this system as well. The Trans-Texas Video Network connects the Temple clinical campus and other locations using compressed video and audio signals.

The Telecommunications Group operates a closed circuit television system within the Medical Science Center. Origination and reception sites are configured as a matrix allowing any origination site to be viewed at any subset of reception sites. Satellite downlinks allow independent delivery of these sources of material originating from distant locations.

Two primary classrooms are equipped for fully interactive distance learning, including individual communication between an instructor at one site and each student at another and two-way television links between the participating sites. These facilities can accommodate faculty and professional meetings as well as classroom lectures. Facilities are equipped for videotaping of classroom lectures, seminars, and satellite teleconferences. A video studio within the department is used for both video production and live televised broadcasts. An automated teleconference room in the Reynolds Medical Building is used for committee meetings and internal management activities.

The interactive, closed circuit television is transmitted via microwave over a dedicated television link. The major lecture halls on both campuses are equipped with 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 Hospital and Clinic, and the Health Science Center 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.

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 primary computer facilities in the Texas A&M University Computing and Information Services Center and to computers connected to the Internet.

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.

These sophisticated communications systems minimize the effect of the 90 mile distance between the Temple and College Station campuses. Basic science teaching activities are facilitated and enriched by access to distant clinical sites and clinical experiences of the students benefit from ready access to basic science faculty and researchers. The College of Medicine uses a broad range of interactive teleconference systems to bring the campuses together.

Biomedical Communications Group

Production services provided by this group include imaging and photographic laboratory services, technical and medical illustration, publication design and production, computer graphics design and slide production, and other support materials production for academic publications and presentations.

Imaging services available include general studio photography, medical photoillustration, copy photography, and specimen photography including photomacrography and photomicroscopy. Macroscopic lighting techniques include dark field and scanning light. Microscopic lighting techniques available include a full range of contrast enhancements such as phase contrast, Normarski, ultraviolet, fluorescence and others. Complete black and white and color laboratory services are available as well.

Graphic design and production services include full support for research publication graphics, brochures, presentation slides, and poster presentations. Publication design,

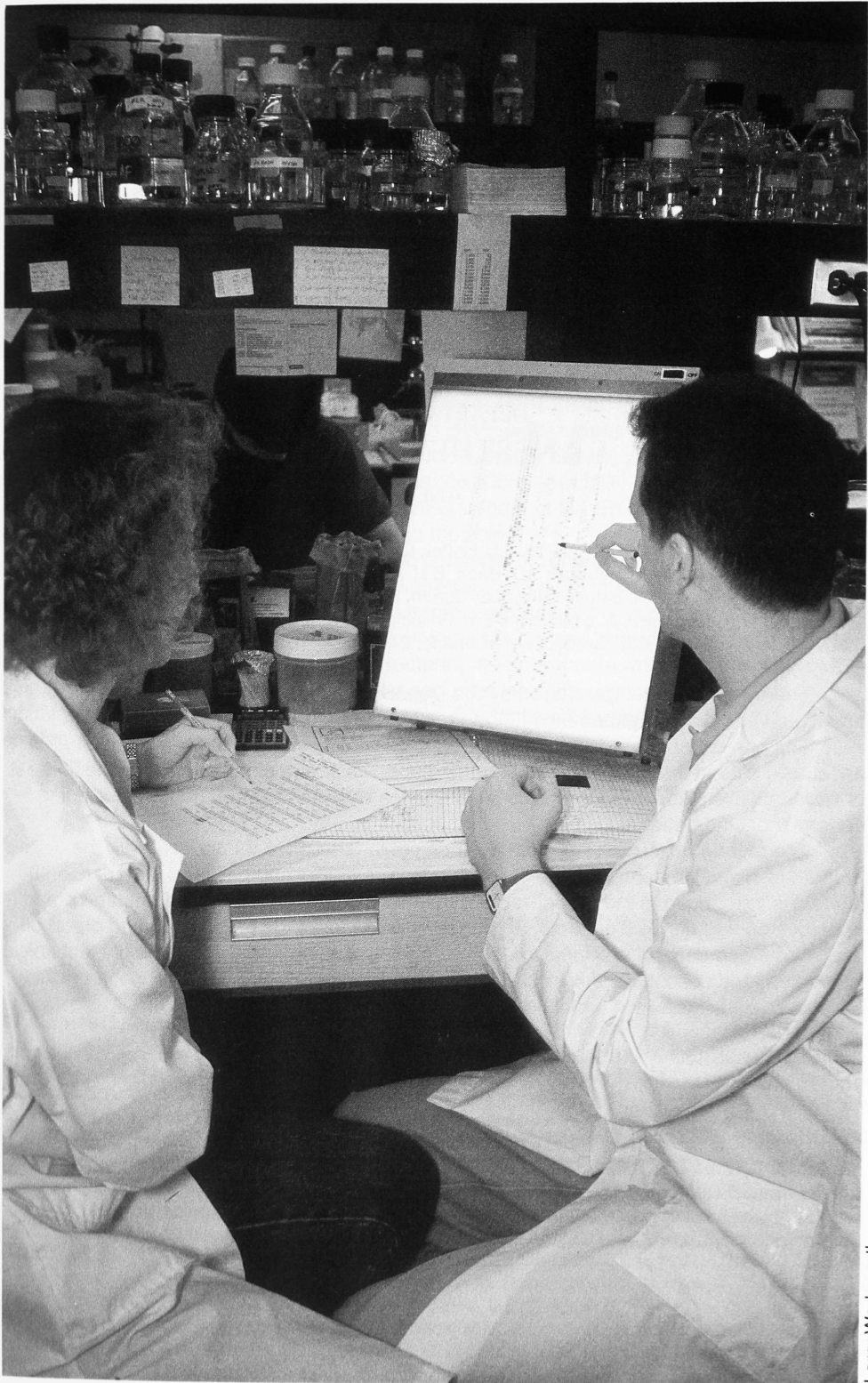
layout and production services are available for brochures, instructional materials, technical publications, newsletters, and catalogs. Conventional and computer illustration services are available as well.

Information Environments Lab

This interdisciplinary research laboratory explores more effective ways to communicate by focusing on human experience in interaction within information-rich environments. A key goal of this effort is to develop more effective means of communicating complex information to multiple audiences. Applications include patient education in medical and non-medical settings, multiple instructional modalities within a single information system, and using emotional response to increase information cognition and retention.

Production components which support these efforts include video production, audio production, computer animation and visualization, and interactive multimedia development. Production facilities within the department include a non-linear video editing suite providing broadcast-quality output; a video production studio; a digital audio workstation; a complete music composition and production studio; a multimedia development system; and a Silicon Graphics VGX graphics workstation running SoftImage, Wavefront, Data Visualizer and other leading animation and visualization software.

Clinical associates in the private sector provide research sites for the communications programs developed as a part of I.E. Lab projects. Research on communications methodologies yield measures of the effectiveness of these materials that are used to refine future projects.



Larry Wadsworth

COURSE DESCRIPTIONS

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

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

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

DEPARTMENT OF ANESTHESIOLOGY

ANES

Professors E.W. Ahlgren, R.D. Bastron, J.L. Hoffer, C.H. McLeskey (Head); **Professor Emeritus** W.R. Engvall; **Associate Professors** J.D. Bean, B.H. Kim, O.E. Kitchings, W.S. May, G.H. Morton; **Assistant Professors** T.M. Bittenbinder, S.E. Borum, K.F. Elliott, J.R. Gibson, Jr., M.L. Glasgow, D.F. Gloyna, T.K. Matthews, A.J. McDavid, B.L. Pollock, P.A. Rinaldi, C.R. Roberson, J.V. Stonecipher, A.L. Stuart, C.E. Swide, F.J. Villamaria; **Clinical Assistant Professor** P.B. Ryan.

The elective clerkships offered by the Department of Anesthesiology are designed to provide an introductory experience in the practice of Anesthesiology.

The one-week third year elective introduces the student to basic principles of anesthetic care in the operating room, under supervision of a senior staff Anesthesiologist or resident. The student gains practical experience with airway management, including endotracheal intubation.

The four-week fourth-year elective attempts to familiarize the student with the breadth of clinical anesthesiology. Through a lecture series and daily OR experience, the student is introduced to the preoperative evaluation, anesthetic management, and post-operative care of surgical patients. Emphasis is given to the pharmacology and practical use of common general and local anesthetic agents, management concepts of mechanical ventilation, and essentials of fluid and transfusion therapy. Further experience in anesthesia subspecialty areas are provided.

Clinical Anesthesiology. ANES983301. 4 Weeks. To provide an introductory experience in the practice of anesthesiology. Prerequisite: Satisfactory completion of year 3 of the medical school curriculum.

Pain Clinic. ANES983308. 4 Weeks. An introduction to acute post-operative pain and chronic pain syndromes Prerequisite: Satisfactory completion of the clinical anesthesiology elective.

Clinical Anesthesiology. ANES983312. 4 Weeks. To provide an introductory experience in the practice of anesthesiology at the Olin E. Teague Veterans' Administration Hospital. Prerequisite: Satisfactory completion of year 3 of the medical school curriculum.

DEPARTMENT OF EMERGENCY MEDICINE

EMER

Associate Professors B.C. Bollinger, B.H. Chlapek, G.D. Hobbs (Head), D.M. Yealy; **Assistant Professors** L.M. Bryson, T.C. Coburn, J.A. Gilbert, C.W. Gossett, T.J. Greene, K.R. Johnson, T.R. Jones, L.I. Kietzman, K.C. Kleinschmidt, J.T. McDonnold, J.F. Moshinskie, P.B. Rosen, M.D. Westfall.

Emergency Medicine has emerged as a specialty with its own training programs, specialty boards, literature, etc. Our approach to patient management is tempered by the unique circumstances of the Emergency Department. Many patients with multiple and different problems of varying duration and varying severity must be seen, examined, have workups started, receive treatment and have dispositions made. Often several patients are being cared for one at a time. The need to give quality care is an ever present factor as is the need to expedite each case, avoid unnecessary history, physical examination, lab tests, procedures, etc. Add to this the ever constant possibility of receiving one or more critically ill patients, and it is easy to understand that the Emergency Department must have (and does have) its own "style" of medicine.

The goal is to teach some of the basic concepts of Emergency Medicine. This involves formal discussion, reading of the literature, and most importantly allowing students to handle their own case with the appropriate amount of supervision. Important concepts, etc. include: patient triage, performing a history and physical examination that is appropriate to the individual case, and structuring an appropriate workup and following it through. Students are encouraged to learn and practice skills such as suturing, IV techniques, and any other procedure available. Students will learn how to become more comfortable in management of diverse as well as multiple patients.

983 & 984. Elective Clerkship in Medicine. 4 weeks. Credit 5. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.

DEPARTMENT OF FAMILY AND COMMUNITY MEDICINE

MFCM

Professors D.B. Cauthen (Head), O.C. Cooper, R.A. DeVaul, H.S. Lipscomb; **Clinical Professors** C.J. Daniel, J.J. Hall, J.I. Lindsay, J.T.L. McNew, H.D. Pope, Jr., S.H. Richardson; **Associate Professors** S.I. Bame, G.R. Bellamy, R.G. Morgan; **Clinical Associate Professors** J.N. Bryan, J.A. Dula, D.A. Gloff, R.W. Huddleston, B.C. Jones, G.R. McIlhaney, R.W. Pearce, D.R. Segrest, G.W. Smith, J.M. Weed III, J.S. Weinblatt; **Assistant Professors** W.M. Averitt, W.G. Bartels, W.S. Carpentier, D.O. Cohen, N.R. Cohen, A.B. Caylor, B.A. Chumak, A.A. Cisneros, C.W. Clanton, E.A. Cooney, R. Cortes, G.R. Couchman, P.H. Crumpler, M.W. English, E. Fasolino, W.F. Floyd, P.D. Gerdes, G.R. Goebel, M.P. Hagen, B.J. Hahn, R. Harbolovic, R.A. Henry, Jr., R.D. Jensen, F.E. Jernigan, J.A. Joseph II, K.R. Kindle, M.O. Kirkpatrick, G.N. Lambert, L.A. Lawrence, O.W. Lowrey, J.E. Madsen, T.D. Maynard, D.A. McClellan, C.T. Mears, M. Mutyala, S.P. Nair, M.W. Norwood, L. Ogburn-Russell, S.K. Oliver, W. Peebles, C.L. Perry, T.F. Pullen, J.R. Randles, T.G. Rascoe, A.M. Reed, M.D. Reis, L.E. Robertson, W.C. Robertson, J.R. Rosiles, J.W. Sayre, J.G. Sharp, R.A. Smith, S.L. Smith, C.H. Stern, B. Stone, L.L. Tavel, R.E. Tipton, Jr., D.E. Turvey, R. Villarreal II, T.J. Wagner, R.B. Watson, T.K. Welch, R.M. Wiprud, Jr., H.S. Wu; **Clinical Assistant Professors** S.A. Braden, D.J. Cabrera, R.G. Cochran, Jr., D.R. David, R.G. Ellis, A.K. Haji, R.L. Haydon, L.G. Hermann, R.E. Herron, R.A. Howard, G.C. Hubley, Jr., M.E. Jones,

T.S. Novosad, S.D. Patel, C.H. Prihoda, Jr., H.J. Robinson, W.P. Roquet, D.B. Stigler, M.O. Thakur, R.C. Tongco, L.H. Wells.

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

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

The department also offers an elective course - Pre-Clinical Preceptorship Program. This course is offered during the summer months following the first year of medical school. Students are matched with a family physician in Texas and spend four weeks working with this doctor. The course is designed to improve the students' clinical skills.

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 92

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.

989-301. Pre-Clinical Preceptorship Program. Credit 3. Students spend 4 weeks in the office of a family physician. Prerequisite: Successful completion of the first-year curriculum and departmental approval.

DEPARTMENT OF
HUMAN ANATOMY AND MEDICAL NEUROBIOLOGY
 MANA

Professors M.S. Cannon, I.S. Russell, H.W. Sampson, J.W. Wagner, J.R. West (Head); **Associate Professors** T.H. Champney, J.B. Gelderd; **Assistant Professor** R.C. Miranda; **Assistant Clinical Professor** G.C. McCord; **Lecturer** J.E. Quarles; **Research Professor** C.R. Hamilton; **Associate Research Scientist** F. Sohrabji.

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

The research concentration of the Department centers on several broad areas: brain development, including the neuroteratology of alcohol and other drugs of abuse; the structure and function of the cerebral cortex, including neuroanatomical mechanisms of learning and memory using split-brain animals; recovery of function following spinal cord damage and neural grafting; neuronal plasticity; neuroendocrinology of the pineal gland; bone and joint disease; and comparative hematology.

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

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

601. Advanced Neuroscience. (1-2). Credit 2. Details of mammalian nervous system including humans; focus on organization of functional neural systems and their integrative action; dissection of human brains; use of original research papers. Prerequisites: MANA 922 and approval of instructor.

602. Histochemistry. (1-2). Credit 2. Basic histochemistry demonstrating tissue components and morphology; precise identification, localization of tissue components. Prerequisites: MANA 911 and approval of instructor.

603. Special Regional Human Dissections. Credit 1 to 3 each semester. Dissection of special region with more detail than in MANA 901; histological, neural and gross anatomical material utilized. Prerequisites: MANA 901 and approval of instructor.

607. Methods of Behavioral Brain Research. (0-3). Credit 1. Advanced laboratory course in brain and behavior research; direct supervision in brain surgery techniques, electrical stimulation, recording, behavioral training, brain imaging using autoradiography; computerized data collection and analysis. Uses laboratory animals. Prerequisites: MANA 922 and approval of instructor.

608. Methods in Neurohistology. (1-2). Credit 2. Instruction in anesthetization, perfusion of animals; removal of neural tissues; histological processing, staining of tissues. Prerequisites: MANA 911 and approval of instructor.

609. Neurochemistry. (2-0). Credit 2. Emphasis on mammalian neurotransmitter systems. Prerequisites: MANA 922 or equivalent and approval of instructor.

640. Biomineralization in Animals. (2-0). Credit 2. Factors involved in the process of biomineralization; role of nutrients, physiological processes and environment in normal and abnormal biomineralization. Prerequisite: Approval of instructor.

689-1. Visual Neuroscience. Credit 3. Neural substrates of visual imaging from a retinal to cortical level. Detailed treatment of the neuroanatomical pathways and the neurophysiological coding of the retinal image and visual-motor integration mechanisms.

689-2. Cortical Function. Credit 3. Examine from an anatomical and physiological viewpoint several topics usually characterized as higher cognitive functions by psychologists. Topics will include mnemonic mechanisms; hemispheric specialization; the agnosias, apraxias, and aphasias; and consciousness. Both human and animal data will be considered.

901. Gross Anatomy. Credit 8. Relationships of structures of the human body during its development and in adult form as revealed through dissection; functional significance. Prerequisite: Admission to the medical curriculum or approval of department head.

911. Microscopic Anatomy. Credit 5. Morphologic detail of human cells, tissues and organs as demonstrated by light and electron microscopic techniques; function of structural components. Prerequisite: Admission to medical curriculum or approval of department head.

922. Neuroanatomy. Credit 5. Neural substrates for total regulation of somatic and visceral bodily function and mechanisms underlying the integrated action of the central nervous system; neurologic significance. Prerequisite: Admission to medical curriculum or approval of department head.

985. Problems. Credit 1 or more. Special problem areas within framework of human gross, microscopic, neuro- or developmental anatomy. Prerequisite: Approval of department head.

991. Research. Credit 1 or more. Original investigation of selected areas in anatomy. Prerequisite: Approval of department head.

DEPARTMENT OF HUMANITIES IN MEDICINE MHUM

Professors J.H. Clements, J.A. Knight, J.J. McDermott, D.N. McMurray, D.H. Rosen, D.J. Self (Head), **Associate Professors** B.J. Gastel, G.A. Russell; **Assistant Professors** L.W. Easterling, M.E. Herring, J.R. Pickle, B.A. Tyler; **Adjunct Assistant Professor** R.H. Leslie.

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

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

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

Students are encouraged to visit with faculty members. Members of 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 department head.
- 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 department head.
- 921. Humanities in Medicine Seminars. (2-0). Credit 2.** A wide variety of social issues in medicine addressed from various humanities perspectives including, literature, history, law, religion, etc. Prerequisite: Approval of department head.
- 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 or approval of department head.
- 981. Seminar. (1-0). Credit 1.** Presentation by advanced students, faculty and visiting lecturers of selected topics in medical ethics, history of medicine and other areas in the humanities in medicine. Prerequisite: Approval of department head.
- 985. Problems. Credit 1 or more.** Directed individual study of specialized areas of medical ethics, literature in medicine and the history of medicine. Prerequisite: Approval of department head.
- 988. Leadership in Medicine. Credit 1 or more.** Small group discussions on the nature of medical education designed to help medical students take a leadership role on health care.
- 989. Special Topics in . . . Credit 1 to 4.** Selected topics in an advanced area of medical humanities. Prerequisite: Approval of department head.
- 991. Research. Credit 1 or more.** Research in a specific area of medical humanities. Prerequisite: Approval of department head.

DEPARTMENT OF
INTERNAL MEDICINE
IMED

Professors G.W. Brasher, N. Christoff, W.P. Dyck, A.B. Follender, C.J. Foulks, P.F. Gilliland, J.B. Green III, P.H. Howard, Jr., D.L. Hurlley, K.B. Knudsen, H.S. Lipscomb, N.S. Mann, J.P. McManus, P. Mukhopadhyay, G.C. Okeson, F. Perez-Guerra, V.K. Piziak, J.J. Rinehart, J.C. Starr (Head), A.D. Steele, R.L. Street, E.E. Terry, A.A. Trowbridge, C.A. Verdonk, T. Wajima, T.I. Wallace, R.E. Walsh, L.E. Watson, T.H. Williams, B.T. Woods; **Professor Emeritus** J.H. Acker; **Associate Professors** L.M. Brewer, P.T. Cain, J. Caraveo, J.B. Chandler, Jr., S.H. Chen, D.E. Crisp, A.K. Cryar, W.R. Davis, T.H. Giddings, S.W. Gyeszly, B.R. Hajra, D.F. Havemann, V.D. Holleman, J.A. Jackson, A.L. Jones, J.W. Jundt, J.C. Leadbeater, R.P. Lenahan, G.D. LeSage, J.J. Madler, V.M. Malabonga, S.K. Mann, R.G. Morgan, D.L. Myers, A.E. Nickel, P.E. Ogden, M.R. Osman, D.P. Posey, W.L. Quinn, E.A. Sammer, M.R. Schlabach, J.A. Schuchmann, C.C. Welch, J.G. White, J. T. Wilkinson; **Clinical Associate Professor** C.M. Caperton; **Assistant Professors** J.H. Albers, G.D. Alpini, A.E. Avots-Avotins, L. Barenholtz, D.D. Barton, M.E. Bassel, P.J. Baxley, K.G. Becker, E.C. Berigan, P.D. Bolton, Jr., J.V. Bonds, J.R. Bowling, E.C. Brown, B.A. Browne, R.E. Calvo, J.S.O. Cardone, V.D. Chatham, J.N. Childs, N.R. Cohen, R.L. Corbett, L.L. Cortes, C.J. Cramm, Jr., K.S. Culp, F. Davila, G.B. Drake, Jr., D.R. Droemer, Jr., J.E. Dvoracek, M.W. Falcone, P.L. Forest, D.R. Foster, E.M. Frelier, S.A. Gammenthaler, J.E. Gammon, D.S. Gantt, C.E. Geyer, Jr., E. Gowan III, V.H. Gressler, R.M. Gudewich, D.L. Hackethorn Jr., B.M. Hall, R.D. Hall, K.R. Hill, J.D. Hodges, G.P. Holmes, P.D. Houck, V.A. Israbian, R.R. James, D.M. Jermain, R.H. Jesse IV, K.M. Jew, M.H. Kelleher, D.L. Keyser, K.B. Kimmey, B.D. Koehler, D. Leak, S.H. Lee, A.M. Leibold, P.D. Lemper, D.L. Lindzey, D.A. Mackey, J.J. Malina, M.P. Martin, G. Martinez, J.M. Mason, J.L. May, R.F. McCollough, S.A. McMahan, I.D. Mutyala, J.P. Narro, B.B. Niemann, D. Nye, R. Pappu, W.G. Petersen, S. Pokala, N. Pokala, M.R. Prasad, A.E. Price, L.D. Price, D.P. Quick, V. Rajagopalan, D.E. Rawls, G.J. Resendes, J.J. Rohack, R.S. Rosenberger, C.D. Rowlett, J.W. Ryan, E.A. Sammer, A. Shanmugam, G.A. Smith, G.D. Smith, D.J. Smith, J.M. Spann, W.G. Stanley, C. Stauffer, C.G. Stephens, L. Sukumar, S. Sundaram, D.W. Taylor,

T.N. Tracey, V. Van Wormer, S.C. Walker, J.S. Weinblatt, B.A. Weiss, D.R. Weldon, T.J. Westwick, K.F. Williams, G.R. Willie; **Clinical Assistant Professors** P.R. Alexander, D.E. Brannon, R.H. Conklin, N.M. Dave, P.S. Davis, T.A. Ginn, K. Landgraf, J.Y. Lee, R. Light, F.G. Lim, T.E. Lundeen, B.W. Marek, T.L. Rea, C.A. Shoultz, Jr., K.S. Tripathy, S.S. Tseng; **Lecturer** J.R. Arcilla; **Clinical Lecturers** J.R. Arcilla, T.M. Jones, M.E. Kahil.

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.

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). Recommended fourth year clerkships in general medicine and physical medicine and rehabilitation along with a required clerkship in neurology 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.

Current research endeavors in the department are the following: testing of a new drug for treatment of arthritis; several studies in progress on epidemiology; a study on telephone medicine; and animal and human studies to improve the outcomes of patients with coronary artery disease.

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

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

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

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

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

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

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

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

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

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

The Department of Medical Biochemistry and Medical Genetics offers innovative courses in medical biochemistry and in medical genetics, conducts a vigorous and productive research program, and contributes to undergraduate, graduate, and postdoctoral education. The medical biochemistry course offers basic instruction in the sciences of biochemistry, nutrition 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, students are given the understanding of medicine. The course is concerned primarily with the study of macromolecules and intermediary metabolism. Special emphasis is given to recent findings from molecular biology and human genetics. In Medical Genetics, which is closely integrated with Medical Biochemistry, 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. First year medical students take Medical Biochemistry and Medical Genetics concurrently and receive a single grade for the two courses. Medical students are required to sit for the National Board Special Administration Examination as the final examination for both courses. Graduate students have the option to take Medical Biochemistry and Medical Genetics as separate courses.

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 and Nutrition: Macromolecules, Molecular Biology and Molecular Genetics. (5-0). Credit 5. Properties and metabolism of proteins, DNA, and RNA. Recombinant DNA technology and applications to human medicine. The metabolic basis of disease. Metabolism of lipids, carbohydrates, amino acids, purines and pyrimidines. Prerequisite: Admission to the medical curriculum or approval of department head.

913. Medical Genetics. (3-0). Credit 5. Fundamentals of medical genetics, including diseases resulting from inborn errors of metabolism, chromosomal abnormalities, human gene mapping, and applications of recombinant DNA technology to problems of human genetics. Prerequisite: MBCH 911 or approval of the department head.

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

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

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

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

DEPARTMENT OF MEDICAL MICROBIOLOGY AND IMMUNOLOGY

MMIM

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

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

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

The training and research interests of faculty members in the department reflect the major subdisciplines encompassed in the courses offered. These interests focus on host-parasite interactions and include such specific areas as 1) the genetics and molecular biology of bacterial plasmid transfer and conservation; 2) the modulation and regulation of the host's immune response to intracellular pathogens, including *Mycobacterium tuberculosis*; 3) the basic biology of specific agents such as *Escherichia coli* and influenza virus. 4) basic and clinical studies on the pathogenesis of respiratory viruses and vaccine and chemotherapeutic intervention in human disease; 5) the molecular regulation of papovavirus gene expression; 6) regulation of cytokine gene expression; 7) pathogenic mechanisms of secreted toxins produced by *E. coli* and *Shigella spp.*; 8) surface components contributing to rickettsial disease. Medical students may elect to work with faculty members in the department on these or related interests as part of the fourth year elective program.

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

663. Molecular Biology of Animal Viruses. (3-0). Credit 3. In-depth studies of the biochemistry and replication strategies of animal viruses and molecular mechanisms of pathogenesis for selected viral systems. Prerequisites: Graduate classification in virology, molecular biology, biochemistry or approval or instructor.

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

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

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

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

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

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

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

DEPARTMENT OF
MEDICAL PHARMACOLOGY
 AND **TOXICOLOGY**
 MPHM

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

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

The pharmacology course is taught in the second year of study simultaneously with microbiology, pathology, and family and community medicine. Students are taught basic mechanisms of drug actions as well as the clinical correlations of these drugs through periodic clinical conferences.

Electives in pharmacology include: Chemical Pharmacology, Physiological Pharmacology, Neuropsychopharmacology, Medical Toxicology, Problems, Special Topics, and Research in specialized areas closely related to the research interests of faculty members. The department also offers a seminar course that covers selected topics of current interest.

Faculty members in the department are engaged in research in the areas of toxicology, cardiovascular, ocular and neuropsychopharmacology. More specifically, antiglaucoma drugs, non-steroidal anti-inflammatory agents, antiarrhythmics, antineuroblastoma agents, central control of peripheral blood pressure, microcirculation, alcoholism, antiepileptics, antiagings, and the drug reactivities of various vasculatures are being studied. Students' participation in research is encouraged, particularly during the summer months after the first year of study.

923. Medical Pharmacology I. (3-0) Credit 2. General concepts of pharmacologic agents and substances; pharmacokinetics, pharmacodynamics; autonomic drugs; ocular pharmacology; and cardiovascular pharmacology; Prerequisites: Admission to medical curriculum or MPHY 901, 902; MANA 922; MBCH 911, 912 or approval of department head.

924. Medical Pharmacology II. (3-0) Credit 2. Continuation of MPHM 923; Anesthetics; neuropsychopharmacology; analgesics; and chemotherapy. Prerequisites: MPHM 923.

925. Medical Pharmacology III. (3-3) Credit 3. Continuation of MPHM 924; endocrine pharmacology; autacoids; drug abuse; and medical toxicology. Prerequisites: MPHM 924.

931. Practical Therapeutics. 96 clock hours. Interdisciplinary course emphasizing the use of several treatment modalities in the therapy of common clinical conditions. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

981. Seminar. (1-0). Credit 1. Selected topics of current interest will be presented. Presentation and defenses of a scientific paper. Prerequisite: Approval of department head.

985. Problems. Credit 1 or more. Research in specialized areas of pharmacology. Prerequisites: MPHM 925 and approval of department head.

989. Special Topics in . . . Credit 1 to 4. Selected topic in an advanced area of medical pharmacology. Prerequisites: MPHM 925 and approval of department head.

991. Research. Credit 1 or more. Individual research projects conducted under the direction of a supervising professor. Prerequisite: Approval of department head.

DEPARTMENT OF MEDICAL PHYSIOLOGY MPHY

Professors R.B. Armstrong, R.C. Burghardt, D.L. Busbee, A.H. Goodman, H.J. Granger (Head), G.A. Laine, D.S. Linthicum, G.A. Meininger, T.V. Peterson, E.E. Smith, W.E. Ward; **Associate Professors** W.M. Chilian, M.J. Davis, K.S. Ramos; **Assistant Professors** D.T. Kochevar, L. Kuo, C.J. Meininger, J.S. Wasser, Y. Yuan, D.C. Zawieja.

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 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. (10-0). Credit 9. Function and regulation of the systems of the human body with special emphasis on their relationships and feedback control mechanisms. Clinical correlation lectures in pathophysiology. Prerequisite: 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 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 and approval of department head.

991. Research. Credit 1 or more. Original investigation in specific areas of physiology. Prerequisites: MPHY 901 and approval of department head.

DEPARTMENT OF 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 W.F. Baden, D.P. Baker, W.R. Gold, Jr., A.B. Knight (Head), T.J. Kuehl, B.L. Shull; **Clinical Professor** R.H. Benbow; **Associate Professors** R.H. Brakemeier, C.V. Capen, F.L. Leavelle, J.F. Pliego, W.L. Rayburn, C.W. Sanders, P.J. Sulak, T.J. Wincek; **Clinical Associate Professors** L.W.B. Rasberry, W.B. Roman, Jr.; **Assistant Professors** M.P. Appleton, S.G. Bonds, G.E. Chow, P.S. Greene, K.P. Huddleston, W.F. Hughes, K.M. Patterson, M.B. Reedy, M.S. Rowe, J.J. Schrier, M.M. Silver, 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 and which will enable them to provide primary healthcare to all female patients.

The Department of Obstetrics and Gynecology adheres to the educational objectives put forth by the APGO (Association of Professors of Gynecology and Obstetrics) Medical Student Educational Objectives, which represent a careful evaluation of the knowledge, skills, and attitudes that ideally would be acquired during an Obstetrics and Gynecology Clerkship by all students, regardless of their choice of medical specialties. Curriculum objectives 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. 6) to develop problem solving/patient management skills and self-learning concepts and skills as a component of career-long learning.

In the first year, the fundamentals of the obstetric-gynecologic history and examination are taught as a portion of the physical diagnosis course conducted by the Department of Internal Medicine. The presentation utilizes lectures, audiovisual instruction, model patient examinations, and outpatient observation and examination.

During the second year, faculty members teach Introduction to Obstetrics and Gynecology. This course is designed to provide background material in normal obstetrics and gynecology, to relate clinical material to other courses offered in the first and second years, and to serve as a foundation for the obstetrics and gynecology clerkship and electives in the third and fourth years.

A six week Clerkship in Obstetrics and Gynecology is presented during the third year. This clerkship introduces students to specific areas and disease processes of obstetrics and gynecology that are pertinent to all physicians. During the six week clerkship, students rotate for three weeks on the Obstetrics Service and three weeks on the Gynecologic Service. These rotations provide exposure to patients in the outpatient setting as well as in the hospital setting and include activities in labor and delivery and the operating room.

Several fourth year electives in obstetrics and gynecology are offered. These electives are designed to improve the clinical acumen of students in recognizing the problems of obstetric-gynecologic patients as individuals, to further students' educational experiences in the clinical care of patients with subspecialty obstetric and gynecologic disorders, and to provide students with experiences that will enable those who are considering obstetrics and gynecology as a career to evaluate this decision as to its appropriateness. Fourth year elective externships are individually designed to meet the needs of each student.

The Department of Obstetrics and Gynecology is actively involved in both basic science and clinical research, and many opportunities exist for student participation in research in any area of reproduction medicine including Gynecologic-Oncology, Reproductive Endocrinology including gamete and embryo research, Gynecologic-Urology, High Risk Obstetrics, Women's Health Care and Preventive Medicine, and all areas of General Obstetrics and Gynecology.

921. Introduction to Obstetrics and Gynecology. Credit 3. Principles of normal reproductive medicine; menstrual function, conception, sexual differentiation; fetal and maternal physiology; antepartum patient evaluation; intrapartum and postpartum care. Prerequisite: Satisfactory completion of year 1 of the medical curriculum.

982. Core Clerkship in Obstetrics and Gynecology. Clinical obstetrics and gynecology, emphasizing pathologic conditions, with patient evaluation on the in- and outpatient services under supervision of the clinical faculty. Participation in seminars, conferences and clinical rounds. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

983. Elective Clerkship in . . . 4 weeks. Elective clerkship in a specific area of obstetrics and gynecology. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.

985. Problems. Directed study of selected problems in obstetrics and gynecology. Prerequisite: Approval of department head.

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

DEPARTMENT OF
PATHOLOGY AND LABORATORY MEDICINE

MPAT

COLLEGE STATION CAMPUS - **Professors** K.R. Dirks, J.A. Gordon (Head), R.S. Stone; **Associate Professor** G. J. Kochevar; **Assistant Professor** G. E. Davis; **Senior Lecturers** S. Geerling, L.E. Lindner.

TEMPLE CAMPUS - **Professors** S.C. Bauserman, J.A. Diaz, J.F. Green, Jr., R.F. Peterson, E.S. Rappaport, A.M. Spiekerman; **Associate Professors** H.R. Adams, J.B. Coulter III, S.M. Dobin, W.S. Koss, D.J. Ladd, W.B. McCombs III, V.O. Speights, Jr.; **Assistant Professors** D. Arber, R.S. Beissner, J.R. DeVillier, L.R. Donner, D.W. Jay, E.H. Johnson, R.A. Trompler.

OTHER - **Clinical Professors** C.C. Conley (Waco), J.A. Jachimczyk (Houston); **Clinical Assistant Professors** E.R. Eckert (Austin), R.S. Zirl (Conroe).

It is the purpose of the Department of Pathology and Laboratory Medicine to: 1) provide appropriate learning opportunities for medical students, graduate students, postgraduate and practicing physicians; 2) pursue a variety of research projects at the basic and applied levels in the fields of human disease, seeking to provide an overview for those projects based on a knowledge of human disease; and, 3) provide appropriate and accurate diagnostic and consultative pathology service for patient care.

The department offers a required program of instruction in general, systemic, and clinical pathology to medical students throughout their second year and a selective two-week rotation in a hospital pathology department in the required ambulatory clerkship in the fourth year.

General Pathology (host response to injury and introduction to clinical pathology) and Systemic Pathology (diseases of the organ systems) are taught in the first year. The pathology courses serve as a bridge between the basic sciences and the clinical 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.

The fourth-year clerkship teaches students how to use the laboratory service and the consultant pathologist in an efficient and cost effective manner. Students participate in the work of anatomic and clinical pathology sections of the hospital laboratory. This clerkship also provides students with in-depth instruction in those disorders seen during their rotation.

Elective clerkships offered in the fourth year include: anatomic pathology, blood bank, clinical chemistry, clinical immunology, clinical microbiology, hematopathology, laboratory testing in endocrinology, academic pathology, and an elective in research.

Research interests of department members include the role of tyrosine kinases on the transformation of chick embryo fibroblasts by Rou sarcoma virus and the influence of vanadate; identification and characterization of an antigen found in cells derived from cancer of the kidney; the role of integrins in leukocyte diapedesis and tumor cell

metastasis; novel staining techniques for the identification of neoplastic cells in cytology; and a variety of clinically oriented studies involving the gastrointestinal tract, bone marrow, prostate and cancer of the lung.

923. Human Pathology I. Credit 4. Language of disease, identification of morphological lesions in common diseases and relation of their causes and pathogenesis to resulting clinical manifestations. Basic laboratory skills. Prerequisite: Year 1 of medical curriculum or approval of department head.

924. Human Pathology II. Credit 4. Human diseases, their causes, pathogenesis, lesions and resulting manifestations. Prerequisite: MPAT 923 or approval of department head.

925. Human Pathology III. Credit 4. Continuation of MPAT 923 and 924. Prerequisite: MPAT 924.

981. Seminar. (1-0). Credit 1. Pathology seminar presenting selected areas in depth. Prerequisite: Year 1 of the medical curriculum or approval of department head.

983. Elective Clerkship in . . . 4 weeks. Elective clerkship in a specific area of pathology. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

984. Selective Clerkship in . . . 2 or 4 weeks. Selective clerkship in a specific area of pathology and laboratory medicine. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

985. Problems in Pathology. Credit 1 or more. Special problems in pathology. Prerequisite: Year 1 of the medical curriculum or approval of department head.

989. Special Topics in . . . Credit 1 to 4. Special topics in advanced pathology. Prerequisite: Year 1 of the medical curriculum or approval of department head.

991. Research. Credit 1 or more. The interest of the student and the supervising faculty member will determine the specific nature of the research. Prerequisites: Completion of years 1 and 2 of medical curriculum or approval of department head.

992. Clerkship. Credit 2 to 8. Application of knowledge learned in MPAT 923, 924 and 925 in the hospital laboratory setting. Prerequisite: First two years of the medical curriculum.

DEPARTMENT OF PEDIATRICS

MPED

Professors G.W. Brasher, L.S. Frankel, B.G. Gold (Head), H.B. Hahn, Jr., D.R. Krauss, N.G. Lawyer, J.L. Montgomery, C.D. Morehead, R.E. Myers, R.F. Peterson, M. Weir; **Associate Professors** J.R. Asbury, D.E. Crisp, C.A. Daniel, J.F. Daniel, S.M. Dobin, D.R. Hardy, C.E. Oltorf, S.W. Ponder, W.A. Rae, S.S. Skrovan, J.Q. Thompson, Jr.; **Assistant Professors** M. Beeram, M. Bierworth, J.K. Blevins, B.B. Browne, K.C. Burke, R. Calvo, C.A. Cipriani, K. Colina, M.D. Custer III, D. Fitzsimon, P. Foulks, D. Freedenberg, C.J. Fournier, P.A. Goen, B. Gracious, B.A.T. Hagen, W.D. Holmes, L. Hutchinson, L. Kirby-Keyser, S.P. Nickel, O. Regueira, J. Smith, M. Smith, L. Wick, C.D. Williams; **Clinical Assistant Professors** B. Black, K.H. Burford, C. Neavel, J.W. Parr, L. Street.

Pediatrics is taught in two required courses - Introduction to Pediatrics in the second year and clinical clerkship in the third year. The introductory course consists of topic discussions by the students mediated by practicing pediatricians from Bryan/College Station. Major emphasis is placed on normal growth from birth through adolescence, including physical, mental/emotional, educational/cultural and language development. Preventive medicine and anticipatory guidance are stressed. Selected abnormal conditions are included to illustrate age-related disease and deviations from normal.

The six-week pediatrics clerkship is offered throughout the third year and consists of three weeks in the hospital and three weeks in the outpatient clinic. The clerkship is designed to contrast the problems of children with those of adults, both the approach to the diseases themselves and their impact on the family. Only relatively common diseases are discussed in the 16 hours of topic discussions. In the hospital and outpatient clinic, students are encouraged to evaluate their patients first and compare their findings with

those of the staff. Each year, 55,000 outpatient visits and 4,250 inpatient days assure students and the 16 residents sufficient numbers and diversity of patients. Residents and students are supervised by 31 staff pediatricians and four child psychologists. More than a third of the pediatricians practice general pediatrics and two-thirds practice a subspecialty.

Further experience in pediatrics is available from fourth year, four-week electives: outpatient, hematology/oncology, inpatient, neonatology, allergy, and pediatric intensive care. A Pediatric Honors Program has been established for fourth year students to foster experience in pediatric research and career planning.

921. Introduction to Pediatrics. Credit 3. Principles of pediatrics; normal physiological and psychosocial development of the newborn through adolescence. Prerequisite: Satisfactory completion of year 1 of the medical curriculum.

982. Core Clerkship in Pediatrics. Pediatrics under supervision of the faculty through participation in routine and emergency inpatient (ward and nursery) and outpatient pediatric care. The student will perform histories and physicals, learn problem solving techniques, and participate in conferences, seminars and rounds. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

983. Elective Clerkship in . . . 4 weeks. Elective clerkship in a specific area of pediatrics. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.

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

DEPARTMENT OF PSYCHIATRY AND BEHAVIORAL SCIENCE

MPSY

Professors J.D. Burke, Jr. (Chairman), R.A. DeVaul, J.A. Knight, K.B. Knudsen, D.H. Rosen, I.S. Russell, R.R. Rynearson, B.T. Woods; **Adjunct Professors** D.R. Jones, W.H. Reid, N. Sartorius; **Associate Professors** J.L. Bodden, G.R. Brooks, G.S. Chintapalli, G.R. Elkins, J.M. Farrow, J.H. Fryer, L.A. Gamino, P.B. Hicks, P.S. Hill, R.E. Krych, W.J. Meek, R.B. Nisbet, D.T. Orman, W.A. Rae, W.L. Stewart; **Adjunct Associate Professor** B.J. Sutton; **Assistant Professors** L.W. Bains, R.A. Brandon, K.C. Burke, T.L. Calvert, A.J. Castiglioni, Jr., J.A. Cooney, N.R. Denney, L.W. Easterling, N.R. Fluet, C.J. Fournier, B.L. Gracious, W.A. Gregory, T.G. Hardaway, W.D. Holmes, D.L. Jermain, A.T. Mathew, J.T. Parks, M.H. Rajab, K.D. Reddy, K.B. Robbins, L.D. Rosenstein, D.M. Rudd, P.D. Rye, P.N. Sanchez, G.D. Smith, D.V. Spencer, C.J. Svoboda, R.R. Tamimi, P.E. Tolciu, C.L. Tsai, F.W. Willoughby, J. Worchel, K.A. Young; **Adjunct Assistant Professor** M.K. Psencik; **Clinical Assistant Professors** S.D. Crane, G.L. Eisenhauer, P.M. Naik; **Instructors** L.Y. Brook, J.L. Goza, A.B. Hill, S.S. Huber, D.H. Murdock, T.E. Parr, C.M. Russell; **Clinical Instructor** M.E. McFarlane, D.L. Parkinson; **Clinical Associate** F.E. Gist.

The Department of Psychiatry and Behavioral Science has as its educational objectives teaching the psychological dimensions of the human life cycle, the psychological determinants of the doctor-patient relationship, and basic aspects of the diagnosis and treatment of mental disorders.

The first year is devoted to an introduction to behavioral sciences, including factors that influence human development, the doctor/patient relationship, and maintenance of health. An emphasis will be placed on independent reading and developing the students skills and problem solving, especially related to problems that arise during the course of treating patients.

The second year course will provide an introduction to basic knowledge about psychiatric disorders and their effect on an individual patient's life. Emphasis will be placed on clinical reasoning and problems related to assessment and diagnosis, differential diagnosis, treatment planning, and clinical management.

The third year clinical clerkship in Psychiatry provides students with closely supervised experience with patients who have psychiatric disorders. The clerkship lasts six weeks, and clinical facilities with a broad variety of patients are used throughout Central Texas. Students will develop their knowledge base of mental disorders and will develop clinical skills in relating to patients, interviewing them, assessing clinical and other characteristics, formulating a diagnosis, and implementing a treatment plan. Emphasis will also be placed on developing professional attributes to enable the student to become a capable, conscientious, and ethical practitioner. Elective opportunities in child psychiatry, consultation psychiatry, and other specialized areas will be available during the rotation.

The fourth year offers a two-week clerkship on drug and alcohol disorders, which is required for all students. The student will develop a general fund of information about disorders of alcohol and other psychoactive substances. Students will develop skills in assessing, diagnosing and treating acute phases of illness, such as managing withdrawal by detoxification protocols, as well as participating in rehabilitation programs that promote abstinence and restoration of functioning.

Elective courses cover a wide range of options in the fourth year. Established electives in child and adolescent psychiatry, consultation psychiatry, and advanced clinical experience in inpatient psychiatry, geriatric psychiatry, general outpatient psychiatry and psychotherapy, and partial hospitalization programs including an intensive group therapy based program, are all available. Electives for clinical research and other scholarly activities can be arranged with individual faculty members. In addition, special electives can be created with concurrence of a supervising faculty member to provide clinical and research opportunities in the student's area of interest within psychiatry.

Research projects underway within the Department include an international study on somatoform disorders sponsored by the World Health Organization; studies on clinical management of depression in primary care settings; development of advanced assessment instruments in such areas as bipolar disorder in prepubertal children, and development of "an emotional status examination"; basic laboratory research on neurotransmitter systems and their interaction; clinical trials of medications and other somatic treatments; studies of psychophysiological parameters such as the startle response and eye tracking in patients with different psychiatric disorders.

Third-year Clerkship in Psychiatry

At present the basic rotation involves a core clinical component, with additional specialized experience.

1. Core clinical experience - The student will be assigned to the psychiatric service at one of three teaching hospitals in the Health Science Center; these facilities are Scott and White Hospital, Olin E. Teague Veteran's Medical Center and Darnall Army Community Hospital. Basic experience in both inpatient and outpatient psychiatric services will be provided through close day-to-day supervision by senior faculty members. Special seminars and lectures will also be provided. Students will be expected to prepare case write-ups on patients they have followed.

2. Patients with severe psychiatric disorders - All students will spend one week during the clerkship at the Waco Veteran's Medical Center, a referral hospital for psychiatric and extended care patients in the Veteran's Administration Medical Care system. Students will have responsibility for assessing and following patients with the most severe, disabling illnesses, and will also have an opportunity to experience group psychotherapy with patients suffering from post-traumatic stress disorder.

3. Elective Clinical Experience - Students will have an opportunity to select one of several specialized clinical services for a one week experience. These elective

experiences include: child psychiatry, consultation psychiatry, and specialized treatment units such as for post-traumatic stress disorder or forensic patients.

Evaluation of the clinical experiences will be made by faculty who have supervised the student during the clerkship. Emphasis in grading will be placed on professional attributes, clinical knowledge and skills, and related factors such as ability to function as a member of a clinical team. Additional evaluation will be by oral and written examination, and by the specialty subject examination prepared by the National Board of Medical Examiners. Unprofessional conduct will result in failure of the clerkship even with satisfactory completion of the cognitive aspects of the course.

911. Working with Patients I. (3-1). Credit 4. Physical, psychological and sexual aspects of human development. Illustrative cases presented by practicing physicians. Prerequisite: Admission to medical curriculum.

941. Introduction to Clinical Psychiatry I. Credit 1. Overview of psychiatric diagnosis in accordance with the Diagnostic and Statistical Manual of Mental Disorders; management and treatment of psychiatric disorders. Prerequisite: Completion of year 1 of the medical curriculum.

942. Introduction to Clinical Psychiatry II. Credit 1. Continuation of MPSY 941. Prerequisite: MPSY 941.

943. Introduction to Clinical Psychiatry III. Credit 1. Continuation of MPSY 942. Prerequisite: MPSY 942.

982. Core Clerkship in Psychiatry. Clinical psychiatry, with patient evaluation on the in- and outpatient services under supervision of the clinical faculty, participation in seminars, conferences, hospital and emergency room consultations, and in 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, J.M. Stoebner (Head); **Associate Professors** E.B. Best, Sr., P.D. Bourland, L. Canales, W.R. Carpentier, A.Y.C. Cheung, J.T. Davis, L.H. Deiterman, Jr., J.P. Eberts, T. Hopens, R.F. Kuhnhein, L.G. Naul III, A. Nitishin, E.J. Schoolar, Jr., A.K. Teaford; **Clinical Associate Professors** G.F. Brossmann, E.A. Elmendorf; **Assistant Professors** S.P. Bartold, K.T. Bose, N.R. Braeuer, J.H. Hise, K.A. Iglesia, W.B. Maupin, M.L. Middleton, P.A. Neese, M.L. Nipper, J.C. Pestaner, R.J. Pischinger, F.G. Pratt, G.R. Schally, J.B. Schnitker, G.A. Schultz, R.S. Shah, D.L. Simmons, R.R. Starks, G.P. Swanson, T.D. Truitt, S.M. Wright, J.C. Wu; **Clinical Assistant Professor** G.C. McCord; **Instructor** P.R. Johnson.

The Department of Radiology is responsible for the education of students in all fields of medical imaging including conventional radiography, nuclear radiology, ultrasound, computerized tomography and magnetic resonance. The department also instructs students in therapeutic radiology.

Medical imaging is one of the most important diagnostic tools available to the clinician. The field of medical imaging is rapidly expanding; the development of ultrasound and computerized tomography has revolutionized medical diagnosis. Advances in technology are rapidly changing the field of radiology with the development of new techniques such as digital radiology and sophisticated invasive procedures such as transluminal angioplasty. The field of nuclear medicine also continues to expand rapidly, particularly in the area of cardiac scanning and physiological studies. Radiation therapy plays a very important role in the treatment of cancer.

The educational mission of the department is to provide students strong backgrounds in the understanding of the imaging modalities available to the clinician, the indications for the various procedures, and the fundamentals of image interpretation.

A lecture course in medical imaging is required for students in the third year. The course stresses the fundamentals of roentgen interpretation and indications for the various imaging procedures.

Several electives are offered to fourth year students including diagnostic radiology, nuclear medicine, and therapeutic radiology. The four week elective in diagnostic radiology emphasizes image interpretation. Students work directly with radiologists and also make extensive use of the comprehensive teaching film file available in the department.

931. Principles of Radiology. 18 clock hours. Methods of medical imaging; conventional radiology, ultrasound, computerized tomography and nuclear radiology, and application of these methods to specific clinical problems. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

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

985. Problems. Directed study of selected problems in radiology. Prerequisite: Approval of department head.

DEPARTMENT OF SURGERY SURG

Professors S.C. Bauserman, G.O. Brindley, K.S. Coffield, R.D. Cunningham, J.P. Dieckert, G.T. Keegan, R.C. Klugo, B.L. Koops, D.R. Krauss, A. Lenis, W.E. Lowry, Jr., D.J. Lynch (Head), A.E. Nickel, D.E. Pizar, J.W. Roberts, T. Ruff, S.K. Snyder, E.W. Stark, E.E. Terry, C.N. Verheyden, R.E. Walsh, D.E. Waugh, R.R. White IV; **Professor Emeritus** G.V. Brindley, Jr.; **Clinical Professors** F.G. Anderson, Jr., G.C.Y. Chiou, H.A. Hansen II, R.H. Harrison III; **Associate Professors** L.W. Adams, R. Ashcraft, C.E. Baisden, E.E. Bellens, G.W. Brindley, H.H. Brindley, Jr., C.J. Buckley, R.G. Carlson, J.D. Fisher, J. Ford, W.P. Goforth, P.C. Grothaus, D.R. Haywood, J.C. Hendricks, M.R. Hermans, C.F. Johnson III, C.F. Kallina III, W.L. Knight, K.R. Lecocq, L.G. Manning, D.L. Myers, T.P. Reilly, R.W. Smith, R.E. Symmonds, Jr., C.B. Tate, Jr., A.H. Wahlen; **Clinical Associate Professors** F.G. Anderson, L.W. Coleman, Jr., W.C. Lloyd III; **Assistant Professors** C.W. Akins, W.F. Andrew, G.R. Badger, R. Benavides, H. Birkholz, W.B. Black, C.K. Boese, D.L. Boysen, B.R. Buechler, B.M. Camazine, C.A. Cipriani, J.B. Coulter, M.D. Custer III, R.D. Davis, S.J. Dittmar, R.J. Dunlop, D.L. Ellis, R.C. Frazee, D.C. Frazier, S.F.A. Fulcher, F.J. Gillette, Jr., G.R. Griffiths, W.P. Hamilton, S.L. Hand, D.R. Hardy, F.S. Harris, J.B. Harrison, J.T. Havalda, D.C. Henry, K.D. Hitt, L.R. Hutchinson, L. Hutkoff, A. Jew, B.M. Knieriem, G.K. Koehler, D.K. Lichota, A.G. Lueck, D.M. Lynch, J. Martin, V.A. Mehta, S.A. Meuse, M.J. Miller, R.K. Moore, J.A. Neufeld, I.M. Nihum, S.A. Norris, P.P. Pandya, D.D. Peterson, D.W. Peterson, W.G. Peterson, L.D. Price, R.A. Probe, R.E. Reeve, C.G. Reiter, R.L. Riess, T.R. Rogers, K.H. Smith, P.M. Spezia, R.D. Tuggle, C.A. Venus, M.R. Warner, J.A. Waxman, P.A. Wright, J.C. Wurster, Y. Yuan; **Adjunct Assistant Professor** T.P. O'Shea; **Clinical Assistant Professors** R.D. Alford, D.E. Beesinger, H.E. Bohne, J.P. Bramhall, A.L. Brenner-Wild, M.R. Coffman, S.R. Cox, J.W. Ditzler, Jr., J.J. Fedorchik, Jr., J.B. Giles, J.B. Glenn, Jr., T.B. Gordon,

K.I. Haji, G.L. Hemphill, J.M. Kirby, M.B. Lindsay, W.H. Marr, M.F. McMahon, S.C. Opersteny, M.B. Riley, N.D. Shipman, D.M. Stauch, M.H. Wilkerson, P.W. Wuthrich, A.K. Young, R.R. Young, Jr.;
Instructors V.H. Hamilton, T.H. McCollum, 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.

In addition to the experience in general surgery, the fourth year elective program allows further exposure to anesthesiology, audiology, cardiothoracic surgery, neurosurgery, ophthalmology, oral/maxillofacial surgery, orthopedic surgery, otolaryngology, pediatric surgery, plastic surgery, podiatry, speech pathology, urology, and vascular surgery. Students may also participate in patient management in the Pain Clinic.

Student participation in any ongoing research program is welcome.

982. Core Clerkship in Surgery. Clinical surgery, with workup of patients and participation with the clinical faculty in preoperative evaluation, operative procedure and postoperative care. Participation in clinical rounds, conferences, emergency room and formal classroom activity. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.

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

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

RESEARCH INSTITUTES

MICROCIRCULATION RESEARCH INSTITUTE

Director: H.J. Granger

The mission of the Microcirculation Research Institute is to foster investigations of microscopic blood vessels, the extracellular matrix and lymphatics. Scientists from the Colleges of Medicine, Engineering, Science, and Veterinary Medicine have contributed to the research and training programs of the institute. Regular communication among 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 state of Texas, as well as in the United States. Research is also under way to find active agents for the treatment of ocular inflammation, retinal degeneration, cataract, and ocular infection. Three agents are also patented for the treatment of uveitis and other eye inflammation diseases.

Recent development of "systemic delivery of peptide drugs through eyes" will result in a painless, simple, and economical administration method which replaces needles and syringes.

The Institute of Ocular Pharmacology publishes quarterly the *Journal of Ocular Pharmacology*. This international publication disseminates original research findings from both basic and clinical ocular pharmacology. It also makes the Texas A&M University College of Medicine known to the world.

INSTITUTE OF MOLECULAR PATHOGENESIS AND THERAPEUTICS

Director: R.E. McCallum

The goal of the Institute of Molecular Pathogenesis and Therapeutics is to conduct basic research on 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 College of Medicine and numerous other colleges on the College Station and Temple campuses, as well as the IBT in Houston. The Institute provides a formal mechanism for the interdisciplinary interactions necessary to approach, at the molecular level, contemporary problems such as cancer, infectious diseases, autoimmune disorders, immunodeficiency states, alcoholism, malnutrition, aging, mental illness and inherited genetic disorders. The programs provided by the Institute are comprised of a research seminar series, a variety of weekly journal clubs, a computerized investigator data base, a shared repository for DNA clones and cell and microorganism stock cultures, collaborative workshops and colloquia and the opportunity for combined training of graduate students and postdoctoral fellows. The Institute also sponsors a campus-wide core facility, the Center for Flow Cytometry and Image Analysis.

Research in the Institute receives its primary funding from the National Institutes of Health and the U.S. Department of Agriculture and encompasses a wide variety of area in molecular medicine.

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 faculty in 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 Hospital.

Graduate assistantships and postdoctoral fellowships are available to support individuals who wish to pursue research on cell surfaces. In addition, the center sponsors student participation in its research programs.

CENTER FOR HEALTH SYSTEMS AND TECHNOLOGY

Director: R.S. Stone

The Center for Health Systems and Technology was established in 1983 to coordinate interdisciplinary research and educational programs that transfer technology developed by disciplines outside medicine into health care. The center is currently engaged in research and educational programs that involve faculty members from the Colleges of Medicine, Engineering, Business, Architecture and Environmental Design, Education, and Liberal Arts.

The center has undertaken programs to: 1) broaden the curriculum of the College of Medicine by incorporating units of study from public health and preventive medicine, health care economics and medical sociology; 2) increase understanding of the effects of technology on the organization and delivery of health care through health services research; 3) improve long-term geriatric care by designing an engineered environment that enhances the physical and mental well-being of the disabled and elderly while facilitating the delivery of health care services; and 4) develop a data base that provides a computerized bibliographic resource for members of the center.

The center supports programs for graduate student training in interdisciplinary approaches to problems in health care organization and delivery.

The programs of the Center are closely linked to those of the Health Policy Institute, University of Texas Health Sciences Center, Houston.

INSTITUTE FOR HEALTH CARE EVALUATION

Director: W.R. Gold

Associate Director: R.L. Street, Jr.

The goal of the Institute for Health Care Evaluation is to establish links between the research capabilities of the College of Medicine and the other investigative efforts throughout the University in the area of health services research. Health services research broadly includes issues of efficacy, effectiveness, cost, access and quality of health care.

The Institute works to improve the quality of health care at the most effective cost; to develop collaborative research efforts between the College of Medicine and the other colleges at Texas A&M University in the area of medical care research; to offer a unique environment of medical and technical expertise to corporations and agencies developing new medical technologies; and to establish a liaison between University faculty members and corporations for sponsorship of new medical product ideas.



Larry Wadsworth

Postgraduate Appointments for the Class of 1994

Amirdelfan, Kasra; B.S., Texas A&M University, 1989.

Residency: Family Practice, University of Texas Southwestern Medical School, Ft. Worth, Texas.

Anguiano, Aaron A.; B.S., University of Houston, 1987.

Residency: Family Practice, The Medical Center, Columbus, Georgia.

Arko, Frank R., III; B.S., Texas A&M University, 1990.

Residency: Surgery, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

Baiza, Roland, Jr.; B.S., Incarnate Word College, 1990.

Residency: Obstetrics and Gynecology, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

Barnes, Carlin D.; B.A., University of Virginia, 1990.

Residency: Psychiatry, Cambridge Hospital, Cambridge, Massachusetts.

Bavikati, Neeta; B.A., University of Texas at Austin, 1990.

Residency: Internal Medicine, Brown University, Providence, Rhode Island.

Bennett, Jeffrey S.; B.S., Texas A&M University, 1990.

Residency: Pediatrics, Wright Patterson Air Force Base, Dayton, Ohio.

Bohannon, William T.; B.S., Texas A&M University, 1990.

Residency: Surgery, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

Clark, Chris A.; B.A., University of Texas at Austin, 1989.

Residency: Family Practice, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

Conlin, Giselle M.; B.S., Texas A&M University, 1990.

Residency: Anesthesiology, Lackland Air Force Base, San Antonio, Texas.

Downey, Charles R., Jr.; B.S., Texas A&M University, 1990.

Residency: Obstetrics and Gynecology, Brooke Army Medical Center, San Antonio, Texas.

Duvall, Charles D.; B.S., Abilene Christian University, 1990.

Residency: Diagnostic Radiology, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

Eakin, Kimberly M.; B.S., Texas A&M University, 1989.

Residency: Internal Medicine, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

Given, Tami H.; B.S., Texas A&M University, 1990.

Residency: Obstetrics and Gynecology, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

- Gomez, Omar A.;** B.S., University of Texas at Arlington, 1989.
Residency: Pediatrics, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.
- Gopalakrishnan, Geetha;** B.S., Texas A&M University, 1992.
Residency: Internal Medicine, Brown University, Providence, Rhode Island.
- Holmes, Amanda N.;** B.S., Texas A&M University, 1990.
Residency: Psychiatry, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.
- Hughes, Michael S.;** B.S., Texas A&M University, 1990.
Residency: Internal Medicine, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.
- Jackson, James M.;** B.S., Baylor University, 1990.
Residency: Internal Medicine, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.
- Johnson, Jennifer S.;** B.S., Texas A&M University, 1990.
Residency: Psychiatry, University of Arkansas for Medical Sciences, Little Rock, Arkansas.
- Jones, John E.;** B.S., Dallas Baptist University, 1990.
Residency: Family Practice, McLennan County Medical Education and Research Foundation, Waco, Texas.
- Jones, Kathleen A.;** B.S., Texas A&M University, 1990.
Residency: Pathology, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.
- Kenney, John S.;** B.A., University of Texas at Austin, 1982.
Residency: Anesthesiology, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.
- Khan, Salma S.;** B.S., Texas A&M University, 1993.
Residency: Psychiatry, California Pacific Medical Center, San Francisco, California.
- Layne, Susan M.;** B.S.E., University of Iowa, 1984.
Residency: Internal Medicine, Barnes Hospital Group, St. Louis, Missouri.
- Lim, Alice A.;** B.S., University of Houston, 1989.
Residency: Family Practice, University of Texas at Houston, Houston, Texas.
- McClure, Carol L.;** B.S., Texas A&M University, 1986.
Residency: Transitional, Madigan Army Medical Center, Tacoma, Washington.
- Messbarger, Vincent M.;** A.A.S., Austin Community College, 1983; B.S., Texas A&M University, 1992.
Residency: Anesthesiology, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.
- Morehead, Daniel B.;** B.A., Pepperdine University, 1987.
Residency: Psychiatry, University of North Carolina Hospitals, Chapel Hill, North Carolina.
- Novak, Cynthia Z.;** B.S., Alma College, 1988.
Residency: Family Practice, Phoenix Baptist Hospital and Medical Center, Phoenix, Arizona.

Pearlman, Stuart R.; B.A., University of California at San Diego, 1989.

Residency: Pediatrics, University of California (Irvine) Medical Center, Orange, California.

Pierce, Aleta B.; B.S., Tarleton State University, 1979; B.S., Texas A&M University, 1981; D.V.M., Texas A&M University, 1982.

Residency: Pediatrics, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

Rossman, Michael G.; B.A., Baylor University, 1990.

Residency: Internal Medicine, Madigan Army Medical Center, Tacoma, Washington.

Scheiner, Michael L.; B.A., University of Delaware, 1990.

Residency: Family Practice, Crozer-Keystone Center for Family Health, Springfield, Pennsylvania.

Seim, Michael B.; B.S., University of Notre Dame, 1990.

Residency: Emergency Medicine, East Carolina University, Greenville, North Carolina.

Seim, Rosa H.; B.S., Baylor University, 1989.

Residency: Emergency Medicine, East Carolina University, Greenville, North Carolina.

Snuggs, John H.; B.S., Texas A&M University, 1990.

Residency: Family Practice, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

Tannous, Jeanet N.; B.S., University of Texas at Austin, 1990.

Residency: Pediatrics, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

Turnage, Elizabeth B.; B.A., University of Texas at Austin, 1988.

Residency: Family Practice, McLennan County Medical Education and Research Foundation, Waco, Texas.

Vander Straten, Melody R.; B.S., Trinity University, 1990.

Residency: Family Practice, Naval Hospital, Jacksonville, Florida.

Warren, Cheryl L.; B.A., Baylor University, 1990.

Residency: Family Practice, University of Oklahoma College of Medicine, Tulsa, Oklahoma.

Warren, Thomas R., II.; B.S., Baylor University, 1990.

Residency: Surgery, University of Oklahoma College of Medicine, Tulsa, Oklahoma.

Whelchel, Jeffery T.; B.S., Wayland Baptist University, 1990.

Residency: Family Practice, McLennan County Medical Education and Research Foundation, Waco, Texas.

Whitt, Paul D.; B.A., Texas A&M University, 1981.

Residency: Surgery/Otolaryngology, University of Louisville, Louisville, Kentucky.

Yo, In Soo; B.A., University of Texas at Austin, 1990.

Residency: Surgery - Preliminary, Alton Ochsner Medical Foundation, New Orleans, Louisiana.

Young, David L.; B.S., Baylor University, 1989; M.C.G., Baylor University, 1990.

Residency: Surgery, Georgia Baptist Medical Center, Atlanta, Georgia.

Young, Jerome C.; B.S., Texas A&M University, 1988.

Residency: Internal Medicine, Texas A&M College of Medicine, Scott and White Memorial Hospital, Temple, Texas.

Class of 1995

- Barrella, Amanda L.;** San Antonio. B.S., St. Mary's University, 1990.
- Bell, Robert L.;** Hewitt. B.S., Baylor University, 1990.
- Bennett, Kelly A.;** Cleburne. B.S., Abilene Christian College, 1991.
- Bermudez, Jairo L.;** San Antonio. B.S., University of Texas at San Antonio, 1988.
- Beshires, Eric D.;** Garland. B.S., Texas A&M University, 1991.
- Bradshaw, William A.;** Fort Worth. B.S., University of North Carolina, 1991.
- Carwile, John M.;** Montgomery. B.S., Texas A&M University, 1989.
- Castellanos, Luis G.;** San Antonio. B.S., Texas A&M University, 1988.
- Conflitti, Joseph M.;** Fredericksburg. Texas A&M University, No Degree.
- Conway, Warren L.;** Silsbee. B.S., Texas A&M University, 1990.
- Do, Nam H.;** Amarillo. B.S., West Texas State University, 1991.
- Franklin, Sherry L.;** Austin. B.A., University of Texas at Austin, 1991.
- Given, Brian V.;** San Antonio. B.S., Baylor University, 1991.
- Goen, Tracy H.;** Lake Charles, Louisiana. Texas A&M University, 1989.
- Gogulski, David H.;** College Station. B.S., Texas A&M University, 1991.
- Green, Scott D.;** Livermore, California. Brigham Young University, No Degree.
- Hammer, David B.;** Ontario, Oregon. B.A., Brigham Young University, 1987.
- Heinz, Stephan M.;** College Station. B.S., Texas A&M University, 1978.
- Johnson, Christopher R.;** Athens. B.S., Texas A&M University, 1990.
- Kastner, Donney W.;** Lexington. Texas A&M University, No Degree.
- Khudatyan, Grachya;** Yerevan, Armenia. B.S., University of Houston. 1991.
- Konen, Andrew A.;** Fort Worth. B.S., Baylor University, 1991.
- Kottman, David D.;** San Antonio. B.A., Trinity University, 1991.
- Krueger, Janet A.;** Hyattsville, Maryland. B.S., Texas A&M University, 1991.
- Lemons, Warren C.;** Houston. B.S., Texas A&M University, 1991.
- Mistry, Fulvantiben D.;** Bryan. B.S., Haile Sellassie University, 1970; M.S., Texas Christian University, 1972; Ph.D., Texas A&M University, 1977.
- Morgan, Victoria B.;** Temple. B.S., Texas A&M University, 1991.
- Oandasan, Aileen P.;** Lake Jackson. B.S., Southwestern, 1991.
- Pelton, Kelly L.;** Victoria. Texas A&M University, No Degree.
- Petersen, Lance R.;** Idaho Falls, Idaho. B.S., Indiana University, 1989.
- Prabhu, Fiona R.;** Ottawa, Canada. B.S., McGill University, 1988.
- Richmond, Michael J.;** Richardson. B.S., Texas A&M University, 1990.
- Rosecrans, Shay D.;** Corpus Christi. Texas A&M University, No Degree.
- Shelton, Laura L.;** Corpus Christi. B.A., Texas A&M University, 1991.
- Shupack, Ian S.;** Weston, Connecticut. B.S., Washington & Lee University, 1991.
- Sligh, Scott P.;** Austin. B.S., University of Texas at Austin, 1987.
- Sligh, Teresa S.;** Austin. B.S., University of New Mexico, 1987.
- Snuggs, Michelle;** San Angelo. B.S., Texas A&M University, 1990.
- Sonnen, Gregory M.;** San Antonio. B.S., Texas A&M University, 1991.

- Vickers, Dana L.;** Paris. B.S., Texas A&M University, 1991.
- Vytla, Bhaskara R.;** Houston. B.S., Birla Institute, 1984; M.S., Andhra University, 1987; M.S., University of Houston, 1991.
- Weinberg, Jay S.;** Houston. B.S., Tulane University, 1991.
- Wilke, Eric K.;** Waco. Texas A&M University, No Degree.
- Williams, Kimberly D.;** Prairie View. B.S., Prairie View A&M, 1991.
- Wright, John R.;** Duncanville. B.S., Texas A&M University, 1990.
- Zwernemann, Robert;** Houston. B.A., Baylor University, 1990.

Class of 1996

- Airhart, Jim B.;** Mesquite. B.A., Texas A&M University, 1992.
- Albritton, Ford D., IV;** Dallas. Texas A&M University, No Degree.
- Arnaud, Catherine;** San Antonio. B.A., University of Texas at Austin, 1991.
- Baquero, Jeannie;** Spring. B.S., Texas A&M University, 1992.
- Chen, Philip, Kuan Wen;** Houston. B.S., University of Pennsylvania, 1992.
- Davis, Jad L.;** College Station. B.S., Stephen F. Austin State University, 1992.
- Dickie, Mark H.;** Gatesville. B.S., Texas A&M University, 1991.
- Dunfee, William R.;** Sulphur Springs. B.S., University of the South, 1991.
- DuPont, Jessica;** Austin. B.S., Southwestern University, 1991.
- Ellis, Christopher J.;** Houston. B.S., Texas A&M University, 1991.
- Ferguson, Charles E.;** College Station. B.A., Texas A&M University, 1992.
- Fisch, Jason P.;** Bryan. B.S., Texas A&M University, 1992.
- Gonzalez, Dagoberto I., Jr.;** Laredo. B.S., Texas A&M University, 1992.
- Gore, Garry L.;** College Station. B.S., Texas A&M University, 1984.
- Guerra, Rebecca M.;** Bryan. B.A., Rice University, 1992.
- Harris, Caleb H.;** Wharton. B.A., Rice University, 1992.
- Heston, Pamela C.;** Mason City, Iowa. B.S., University of Houston, 1992.
- Hicks, Tracy D.;** Plano. B.S., Texas A&M University, 1992.
- Kelly, Adrienne M.;** Seattle, Washington. B.S., Texas A&M University, 1991.
- Lamar, Michael E.;** College Station. B.S., Texas A&M University, 1987.
- Lancaster, Amy R.;** Nacogdoches. B.S., Stephen F. Austin State University, 1992.
- Lemmond, Keri L.;** Dickerson. B.S., Stephen F. Austin State University, 1990.
- Lopez, Lisa M.;** Bryan. B.S., Tarleton State University, 1992.
- Makoske, Theodore A.;** Magnolia. University of Texas at Austin, No Degree.
- McNeal, Catherine;** College Station. B.A., Texas A&M University, 1976; Ph.D., Texas A&M University, 1980.
- Merritt, Daniel B.;** Houston. B.S., Southwestern University, 1990.
- Morgan, Garth;** Houston. B.S., Texas A&M University, 1988; M.P.H., University of Texas School of Public Health, 1990.
- Moss, Deborah, Y.;** San Antonio. B.A., State University of New York, Albany, 1982; M.A., Webster University, Missouri, 1985.

elston, Darren L.; Duncanville. B.S., Texas A&M University, 1991.
guyen, Khanh T. T.; Grand Prairie. B.S., Southern Methodist University, 1992.
iedermeyer, Valery A.; Plano. B.S., University of Southern California, 1991.
isimblat, Erik; Alice. B.S., Texas A&M University, 1992.
vermeyer, Pamela A.; Texarkana. B.S., Texas A&M University, 1992.
leet, John J.; Conroe. B.A., University of Texas at Austin, 1992.
irinelli, Jeffrey J.; Dallas. B.S., Southern Methodist University, 1990.
otter, Michael B.; Wilton, Connecticut. B.A., University of Virginia, 1991.
ivers, Thomas B.; Iola. B.S., Texas A&M University, 1992.
chroeder, Denise K.; Madisonville. B.S., Mount Marty College, South Dakota, 1985.
ebolt, Brian R.; Conroe. Texas A&M University, No Degree.
aylor, Jason G.; Longview. B.S., Vanderbilt, 1992.
indall, Bronson S.; College Station. Texas A&M University, No Degree.
indall, Leah; Alice. B.S., Texas A&M University, 1992.
urell, David C.; Houston. B.A., Washington University at St. Louis, 1992.
azquez, Noemi; Houston. B.S., University of Houston, 1992.
erma, Neeta; Kingwood. B.S., Baylor University, 1992.
Vaguespack, Jeffrey W.; Port Neches. Texas A&M University, No Degree.
Vehner, Margaret S.; Houston. B.S., University of Houston, 1990.
Winnie, Michael G.; Corpus Christi. B.S., Corpus Christi State University, 1990.

Class of 1997

oyne, Robert L.; Houston. University of Houston, No Degree.
runing, Karla V.; Livingston. B.S., Sam Houston State University, 1991.
harleston, Warren H.; Beaumont. B.A., Baylor University, 1993.
havez, Allyson A.; Corpus Christi. B.S., Iowa State University, 1993.
jaftarian, Arezu; Houston. B.A., University of Texas at Austin, 1993.
Javis, Brent O'Bryan; Conroe. B.S., Texas A&M University, 1993.
illis, Keith W.; Sand Springs, Oklahoma. B.S., University of Tulsa, 1983; M.S., Texas A&M University, 1987.
rederick, Robert W.; El Paso. B.S., Texas Christian University, 1993.
raham, Ted A.; Arlington. B.S., Texas A&M University, 1986.
elpert, Christopher A.; Waco. B.S., Texas A&M University, 1991.
lewitt, Mary F.; Highlands. B.S., Houston Baptist University, 1991.
layaprabhu, Sudheer; Bedford. B.S., Dallas Baptist University, 1993.
rieg, Shelly L.; Billings, Montana. B.S., Trinity University, 1989.
oesch, Pamela S.; Plano. B.S., University of Illinois, 1992.
ange, Rodney R.; Bellville. B.A., Texas A&M University, 1992.
ucas, James B., II.; San Antonio. B.S., Texas A&M University, 1993.
ladrigal, Juliette M.; Farmers Branch. B.S., University of Texas at Austin, 1990.
lettauer, Mark M.; Center. B.A., Texas A&M University, 1993.

Monroe, Cynthia L.; Lake Charles, Louisiana. B.S., Texas A&M University, 1992.

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Singh, Harvinderpal.; Houston. B.S., University of Rochester, 1992.

Smart, Kenneth R.; DeSoto. B.S., Texas A&M University, 1991.

Smith, Benjamin L.; Blackwell. B.S., Angelo State University, 1994.

Swafford, Stephanie P.; Tomball. B.S., Southwestern University, 1993.

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- Warren, Julia G.;** Friona. B.S., Texas A&M University, 1994.
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- Won, Christine H.;** San Antonio. B.A., Wellesley College, 1994.
- Zapata, Maria-Isabel;** Houston. B.S., Southwest Texas University, 1994.

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■ *CAMPUS ENVIRONMENTS*

COLLEGE STATION

Texas A&M University is located in College Station, Texas. Bryan adjoins College Station, and the two cities have attained a combined total population of about 110,000. Bryan-College Station is located in east-central Texas in Brazos County between the Brazos and Navasota Rivers on the edge of the Gulf Coastal Plain.

Education is the largest industry in Bryan-College Station. The Texas A&M University System employs about 11,000 people in Brazos County. Other major employers include Westinghouse, Agency Records Control, and Alenco. For employment information, write the Texas Employment Commission, 801 East 29th Street, Bryan, TX 77801, or the Personnel Office, Texas A&M University.

Shopping in Bryan-College Station is available in a great variety of retail outlets. Both Bryan and College Station have shopping malls. Post Oak Mall in College Station is the largest in the area. In addition, there are numerous small shopping centers throughout both cities and stores in downtown Bryan.

Cultural activities in Bryan-College Station are organized by both Texas A&M University and the Brazos Arts Council. The Opera and Performing Arts Society at Texas A&M imports onto campus many types of entertainment, from light and grand opera to ballet and symphonies. A local theater group, a community orchestra and community singers, an Art League, and a nature museum also offer entertainment and educational programs. The Great Issues program at Texas A&M sponsors lectures by nationally known speakers. The Town Hall Series brings both popular and classical artists and entertainers to perform on campus.

Many recreational opportunities are available to participants of all ages. The two cities maintain 40 parks, six swimming pools, two golf courses, and numerous tennis courts. In addition, there are a number of private and University recreational facilities.

TEMPLE

Temple, the largest city in Bell County, Texas, is located near the geographic and population center of Texas. Temple itself has a population of about 50,000. The Bell County (Killeen-Temple-Belton-Fort Hood) metropolitan area has a population of about 188,000. Temple is less than twenty miles from Fort Hood, Belton, Killeen, Lake Belton and Stillhouse Hollow Reservoir.

Medicine is the largest industry in Temple. Four local hospitals, Scott and White Memorial Hospital and Clinic, The Scott and White Santa Fe Center, The Olin E. Teague Veterans' Center, and King's Daughters Hospital provide over 1500 beds, and employ approximately 5,000 people. Other major employers in Temple include Mobil Chemical Company, Texas Instruments, Inc., McLane Company, Inc., Ralph Wilson Plastics, Inc., American Desk, Artco-Bell, the Santa Fe Railroad, and Western Auto.

Temple has a pleasant small town atmosphere in a region with Sunbelt-style growth. Public cultural facilities include the Temple Civic Theatre, the Azalee Marshall Cultural Activities Center, the Frank W. Mayborn Civic and Convention Center, and the Temple Public Library. Numerous churches, parks, lakes, adult education at Temple Junior College, and the Central Texas Orchestral Society offer Temple residents many cultural and educational opportunities.

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College Station, TX 77843

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Heaton Hall
(409) 845-1031

Fiscal Department

Coke Building
(409) 845-8104

A.P. Beutel University Health Center

Dr. Kenneth R. Dirks, Director
(409) 845-1511

Housing Office, Single On-Campus

101 YMCA Building
(409) 845-4744

Housing Office, Off-Campus

Department of Student Affairs
Puryear Hall
(409) 845-2261

Housing Office, Married Student Housing

Box 117, University Mail Service-3365
(409) 845-2261

Student Financial Aid

The Pavilion
(409) 845-3236

Personnel Department

201 YMCA Building
(409) 845-4141

Student Activities Office

Student Group Sickness and Accident
Insurance

The Pavilion
(409) 845-1133

*Coordinator of Veterans and
War Orphans Services*

Ramp B, Hart Hall
(409) 845-1637

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Temple, Texas 76501

Facilities Management Office, Student Affairs
(817) 773-0513

MCAT Information

Application forms for the Medical College
Admission Test are available in most premedical
offices on major campuses. Application forms and
manuals are also available from:

The American College Testing Program

P.O. Box 414
Iowa City, Iowa 52240

MCAT Student Manual

The Association of American Medical
Colleges

Office of Membership and Subscriptions
One Dupont Circle, N.W., Suite 200
Washington, D.C. 20036

Notice of Nondiscriminatory Policy

The Texas A&M University Health Science Center, College of Medicine, in compliance with applicable federal laws and regulations, does not discriminate on the basis of race, color, national origin, sex, age, religion, handicap or status as a veteran in any of its policies, practices or procedures. This includes, but is not limited to admissions, employment, financial aid and educational services.

It is the goal of the Texas A&M University Health Science Center that its campus be accessible to the physically handicapped and free from unnecessary physical barriers.

Texas A&M does not discriminate on the basis of an individual's handicap and complies with Section 504 in its admissions, accessibility, treatment, and employment of students in its programs and activities. The designated 504 Coordinator for The Texas A&M University System is the Assistant Executive Director, System Human Resources Office, who is responsible for equal opportunity/affirmative action matters, telephone (409) 845-2026.

Texas A&M provides academic adjustments and auxiliary aids to students with handicapping conditions, as defined under the law, who are otherwise qualified to meet the institution's academic requirements. The office of Support Services for Students with Handicaps coordinates Texas A&M University's programs and efforts for the benefit of the individuals covered under the statute. For additional information, contact the office at (409) 845-1637.

The Texas A&M University Health Science Center is a component of the Texas A&M University System and is subject to the Rules and Regulations of the Board of Regents of The Texas A&M University System.

College of Medicine

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Health Science Center



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