



COLLEGE OF MEDICINE BULLETIN

TEXAS A&M UNIVERSITY

1988-1990

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Veterans Administration Medical Center, Waco

R. Tom Williams, *Director*
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TEXAS A&M UNIVERSITY

COLLEGE OF MEDICINE

1988-1989 ACADEMIC CALENDAR

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

First and Second Year Classes — College Station

Fall Term 1988

August 15	Monday. Registration and first day of fall term classes for M1 students.
August 29	Monday. First day of fall term classes for M2 students.
November 18	Friday. Last day of fall term classes for M1 and M2 students. Registration for winter term.
November 21-23	Monday through Wednesday. Fall term final examinations.
November 24- December 4	Thursday through Sunday. Term end break.

Winter Term 1988-1989

December 5	Monday. First day of winter term classes for M1 and M2 students.
December 21- January 3	Wednesday through Tuesday. Christmas and New Year's holiday.
March 7	Tuesday. Last day of winter term classes for M1 and M2 students. Registration for spring term.
March 9-11	Thursday through Saturday. Winter term final examinations.
March 12-19	Sunday through Sunday. Term end break.

Spring Term 1989

March 20	Monday. First day of spring term classes for M1 and M2 students.
May 26	Friday. Last day of spring term classes for M2 students. Registration for Year 3.
May 29-June 1	Monday through Thursday. Spring term final examinations for M2 students.
June 9	Friday. Last day of spring term classes for M1 students. Registration for fall term.
June 12-15	Monday through Thursday. Spring term final examinations for M1 students.

Third Year Class — Temple

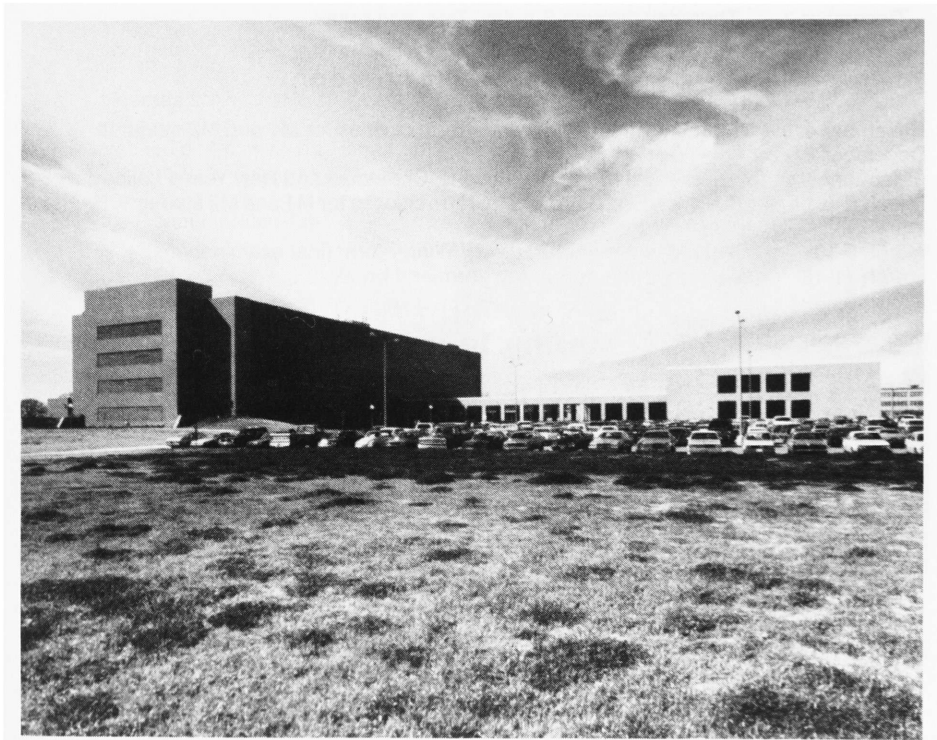
The 48 weeks of the third year curriculum are separated into three eight-week and two twelve-week clerkships.

July 5	Tuesday. Clerkships begin.
September 5	Monday. Labor Day holiday.
November 24	Thursday. Thanksgiving holiday.
December 17- January 1	Saturday through Sunday. Christmas and New Year's holiday.
June 16	Friday. Clerkships end.

Fourth Year Class — Temple

The fourth year curriculum consists of 40 weeks divided into ten four-week modules.

July 18	Monday. Module 1 begins.
September 5	Monday. Labor Day holiday.
November 24	Thursday. Thanksgiving holiday.
December 17- January 15	Saturday through Sunday. Christmas and New Year's holiday.
June 2	Friday. Module 10 ends.
June 3	Saturday. Commencement.
June 12-15	Monday through Thursday. FLEX examination.



The Medical Sciences Building (left) and the Medical Sciences Library

TEXAS A&M UNIVERSITY COLLEGE OF MEDICINE 1989-1990 ACADEMIC CALENDAR

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

First and Second Year Classes — College Station

Fall Term 1989

August 14	Monday through Friday. Registration and first day of fall term classes for M1 students.
August 28	Monday. First day of fall term classes for M2 students.
November 17	Friday. Last day of fall term classes for M1 and M2 students. Registration for winter term.
November 20-22 November 23- December 3	Monday through Wednesday. Fall term final examinations. Thursday through Sunday. Term end break.

Winter Term 1989-1990

December 4	Monday. First day of winter term classes for M1 and M2 students.
December 21- January 3	Thursday through Wednesday. Christmas and New Year's holiday.
March 6	Tuesday. Last day of winter term classes for M1 and M2 students. Registration for spring term.
March 8-10	Thursday through Saturday. Winter term final examinations.
March 11-18	Sunday through Sunday. Term end break.

Spring Term 1990

March 19	Monday. First day of spring term classes for M1 and M2 students.
May 25	Friday. Last day of spring term classes for M2 students. Registration for Year 3.
May 28-31	Monday through Thursday. Spring term final examinations for M2 students.
June 8	Friday. Last day of spring term classes for M1 students. Registration for fall term.
June 11-14	Monday through Thursday. Spring term final examinations for M1 students.

Third Year Class — Temple

The 48 weeks of the third year curriculum are separated into three eight-week and two twelve-week clerkships.

July 10	Monday. Clerkships begin.
September 4	Monday. Labor Day holiday.
November 23	Thursday. Thanksgiving holiday.
December 16- January 1	Saturday through Monday. Christmas and New Year's holiday.
June 15	Friday. Clerkships end.

Fourth Year Class — Temple

The fourth year curriculum consists of 40 weeks divided into ten four-week modules.

July 17	Monday. Module 1 begins.
September 4	Monday. Labor Day holiday.
November 23	Thursday. Thanksgiving holiday.
December 16- January 14	Saturday through Sunday. Christmas and New Year's holiday.
June 1	Friday. Module 10 ends.
June 2	Saturday. Commencement.
June 11-14	Monday through Thursday. FLEX examination.



The Olin E. Teague Veterans' Center Main Administration Building

INTRODUCTION

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

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

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

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

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

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

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

FACULTY

TEXAS A&M UNIVERSITY COLLEGE OF MEDICINE (Correct as of December 1, 1987)

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., Southern Methodist University, 1943; 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*. (1979, 1981) B.A., Stanford University, 1964; M.D., Baylor College of Medicine, 1968.
- Aguirre, Roberto I.**, *Assistant Professor of Internal Medicine*. (1987) B.S., University of Texas at Austin, 1979; M.D., University of Texas Medical Branch at Galveston, 1983.
- Ahlgren, E. Warner**, *Professor of Surgery*. (1977, 1981) B.S., Franklin and Marshall College, 1958; M.D., University of Buffalo Medical School, 1962.
- Alexander, Phillip R.**, *Clinical Assistant Professor of Internal Medicine* (1978, 1981) B.M., Curtis Institute of Music, 1966; M.D., Baylor College of Medicine, 1971.
- Algermissen, Virginia L.**, *Associate Professor and Director, Medical Sciences Library*. (1976) B.M., University of Colorado, 1949; M.A.L.S., University of Denver, 1961.
- Allen, Duane M.**, *Assistant Professor of Internal Medicine*. (1985) B.S., Western Michigan University, 1950; M.D., Wayne State University College of Medicine, 1959.
- Allen, Gary W.**, *Associate Professor of Surgery*. (1979, 1981) B.A., Princeton University, 1962; M.D., Emory University, 1966.
- Allen, William R.**, *Associate Professor of Pediatrics*. (1982) M.D., University of Mississippi School of Medicine, 1972.
- Allison, Dale C.**, *Clinical Assistant Professor of Family and Community Medicine*. (1981) B.A., University of Texas at Austin, 1970; M.D., University of Texas Medical Branch at Galveston, 1974.
- Amaral, Barbara W.**, *Assistant Professor of Internal Medicine*. (1979, 1981) B.S., Temple University, 1956; M.D., University of Kansas School of Medicine, 1960.
- Anderson, Charles R.**, *Clinical Assistant Professor of Obstetrics and Gynecology*. (1979, 1981) A.S., York Junior College, 1968; B.S., Harding University, 1970; M.D., University of Nebraska College of Medicine, 1974.
- Anderson, Frank G., Jr.**, *Clinical Professor of Surgery*. (1979, 1981) B.S., Texas A&M University, 1950; M.D., University of Texas Medical Branch at Galveston, 1954.
- Anderson, Fred G.**, *Clinical Associate Professor of Surgery*. (1979, 1981) B.A., University of Texas, 1958; M.D., University of Texas Medical Branch at Galveston, 1962.
- Androes, LeRoy I.**, *Associate Professor of Psychiatry and Behavioral Science*. (1983) B.A., Bethel College, 1950; M.S., Wichita University, 1954; M.D., University of Kansas School of Medicine, 1958.
- Arko, Frank R.**, *Associate Professor of Surgery*. (1986) B.A., University of Minnesota, 1956; B.S., 1959; M.D., University of Minnesota Medical School—Minneapolis, 1959.
- Asbury, John R., Jr.**, *Associate Professor of Pediatrics*. (1977, 1981) B.S., Austin College, 1965; M.D., Baylor College of Medicine, 1969.

- Baden, Wayne F.**, *Clinical Professor of Obstetrics and Gynecology*. (1981) B.S., Coe College, 1940; M.D., University of Iowa Medical School, 1943.
- Baker, Dudley P.**, *Professor and Head of Obstetrics and Gynecology*. (1977, 1981) B.A., Southern Methodist University, 1959; M.D., Louisiana State University, 1962.
- Bame, Shirley I.**, *Assistant Research Scientist in the Center for Health Systems and Technology*. (1984) B.S.N., University of Michigan School of Nursing, 1969; M.S., Boston University School of Nursing, 1972; Ph.D., University of Michigan, 1985.
- Barnes, Robert N.**, *Professor of Internal Medicine*. (1977, 1983) B.S., University of Oklahoma, 1950; M.D., University of Oklahoma College of Medicine, 1954.
- Barnett, Duane A.**, *Associate Professor of Surgery*. (1979, 1981) B.A., University of Oklahoma, 1948; M.D., University of Oklahoma College of Medicine, 1952.
- Bartels, W. George**, *Assistant Professor of Family and Community Medicine*. (1983) B.A., Texas Lutheran College, 1974; M.D., University of Texas Health Science Center at San Antonio, 1980.
- Barton, David D.**, *Assistant Professor of Internal Medicine*. (1986) B.S., University of Texas at Austin, 1978; M.D., University of Texas Medical School at Houston, 1982.
- Bassel, Maria E.**, *Assistant Professor of Internal Medicine*. (1979, 1984) B.S., Institute of Technology, 1950; M.D., University of Nuevo Leon, 1956.
- Basson, Susan**, *Associate Professor of Pathology and Laboratory Medicine, of Medical Biochemistry and Medical Genetics, and of Medical Microbiology and Immunology*. (1982, 1987) B.S., University of Pittsburgh, 1969; M.A., State University of New York at Buffalo, 1973; Ph.D., University of Pittsburgh, 1980.
- Baugh, Reginald F.**, *Assistant Professor of Surgery*. (1987) B.S., University of Iowa, 1977; M.D., University of Michigan Medical School, 1981.
- Bauserman, Steven C.**, *Professor of Pathology and Laboratory Medicine*. (1986) B.A., University of Iowa, 1959; M.D., 1963.
- Bean, Jolene D.**, *Assistant Professor of Surgery*. (1985) M.D., Friedrich Wilhelm University of Bonn (West Germany), 1979; Sc.D., University of Bonn Institute of Physiology (West Germany), 1980.
- Beaver, Harold G.**, *Instructor in Surgery* (1981) B.A., Baylor University, 1956; M.A., State University of Iowa, 1961.
- Beesinger, David E.**, *Clinical Assistant Professor of Surgery*. (1988) B.A., Texas Tech University, 1969; M.D., University of Texas Medical School at San Antonio, 1973.
- Beissner, Robert. S.**, *Instructor in Pathology and Laboratory Medicine*. (1987) B.S., Texas Tech University, 1975; Ph.D., Rice University, 1979; M.D., University of Texas Medical School at San Antonio, 1984
- Bellens, Edward E.**, *Associate Professor of Surgery*. (1979, 1981) M.D., University of Louvain (Belgium), 1959.
- Benbow, Robert H.**, *Clinical Professor of Obstetrics and Gynecology*. (1978, 1981) M.D., Tulane University School of Medicine, 1945.
- Benjamin, Bruce A.**, *Assistant Research Scientist in Medical Physiology*. (1984) B.A., Westminster College, 1974; Ph.D., Oklahoma University, 1980.
- Benold, Stephen D.**, *Clinical Assistant Professor of Family and Community Medicine*. (1981) B.A., Rice University, 1971; M.D., University of Texas Southwestern Medical School, 1975.
- Bergstrom, Jon F.**, *Associate Professor of Radiology*. (1979, 1981) B.A., University of Iowa, 1963; M.D., University of Iowa College of Medicine, 1966.
- Best, Edward B., Sr.**, *Associate Professor of Radiology*. (1979, 1981) B.S., Hendrix College, 1949; M.D., University of Arkansas College of Medicine, 1953.
- Bilbao, Jorge E.**, *Instructor in Pathology and Laboratory Medicine*. (1986) M.D., Universidad Autonoma de Chihuahua, 1980.

- Birkholz, Howard**, *Assistant Professor of Surgery*. (1987) D.D.S., Marquette University School of Dentistry, 1965.
- Black, Samuel H.**, *Interim Dean, College of Medicine, Professor of Medical Microbiology and Immunology and Codirector of the Institute of Molecular Pathogenesis and Therapeutics*. (1975, 1987) B.S., Lebanon Valley College, 1952; M.S., University of Michigan, 1958; Ph.D., 1961.
- Bodden, Jack L.**, *Associate Professor of Psychiatry and Behavioral Science*. (1981) B.A., Southwestern University, 1965; M.A., Ohio State University, 1967; Ph.D., 1969.
- Bohne, Henry E.**, *Clinical Assistant Professor of Surgery*. (1986) B.S., Texas A&M University, 1972; M.D., University of Texas Medical Branch at Galveston, 1976.
- Bollinger, Bruce C.**, *Assistant Professor of Internal Medicine*. (1982) B.S., George Washington University, 1969; M.D., George Washington University College of Medicine, 1973.
- Bolton, Paul D., Jr.**, *Assistant Professor of Internal Medicine*. (1980, 1981) B.A., Austin College, 1971; M.D., University of Texas Medical Branch at Galveston, 1975.
- Bonnet, John D.**, *Professor of Internal Medicine*. (1977, 1981) B.S., University of Illinois, 1948; M.D., Johns Hopkins University, 1952.
- Borsett-Kanter, Leslie M.**, *Assistant Professor of Pediatrics*. (1987) B.S., Duke University, 1979; M.D., University of Florida College of Medicine, 1983.
- Bourland, Philip D.**, *Associate Professor of Radiology*. (1979, 1981) B.S., Baylor University, 1964; M.S., 1966; Ph.D., 1970.
- Bowling, John R.**, *Assistant Professor of Internal Medicine*. (1981) B.A., University of Oklahoma, 1971; M.D., University of Oklahoma College of Medicine, 1975.
- Boysen, Dirk L.**, *Assistant Professor of Surgery*. (1986) B.S., University of Minnesota, 1976; M.D., University of Minnesota School of Medicine, 1980.
- Braden, James E., Jr.**, *Assistant Professor of Family and Community Medicine*. (1981, 1985) B.S., Southwest Texas State University, 1972; M.D., University of Texas Medical Branch at Galveston, 1975.
- Braden, Stephen A.**, *Clinical Assistant Professor of Family and Community Medicine*. (1982) B.S., Southwest Texas State University, 1975; M.D., University of Texas Southwestern Medical School, 1979.
- Brakemeier, Robert H.**, *Associate Professor of Obstetrics and Gynecology*. (1979, 1981) B.S., Albany College of Pharmacy, 1965; M.D., Albany Medical College, 1969.
- Brandon, Ronald A.**, *Assistant Professor of Psychiatry and Behavioral Science*. (1979, 1981) B.S., Concordia College, 1961; M.S., University of North Dakota, 1966.
- Brandt, Stephen K.**, *Assistant Professor of Surgery and of Pediatrics*. (1986) D.D.S., University of Texas Dental Branch at Houston, 1975.
- Brannon, David E.**, *Clinical Assistant Professor of Internal Medicine*. (1978, 1981) M.D., University of Texas Medical Branch at Galveston, 1972.
- Brasher, George W.**, *Professor of Internal Medicine and of Pediatrics*. (1977, 1981) B.A., Lambuth College, 1959; M.D., University of Tennessee College of Medicine, 1961.
- Brawn, Peter N.**, *Assistant Professor of Pathology and Laboratory Medicine*. (1986) B.S., University of Washington, 1970; M.D., University of Washington School of Medicine, 1974.
- Brewer, Luther M.**, *Associate Professor of Internal Medicine*. (1977, 1981) B.S., University of Texas, 1957; M.D., University of Texas Southwestern Medical School, 1961.
- Brindley, G. Valter, Jr.**, *Professor Emeritus of Surgery*. (1977, 1984) B.A., University of Texas, 1936; M.D., University of Texas Medical Branch at Galveston, 1939; M.S., University of Minnesota, 1944.
- Brindley, George W.**, *Assistant Professor of Surgery*. (1986) B.A., University of Texas at Austin, 1975; B.S., Texas A&M University, 1976; M.D., University of Texas Medical Branch at Galveston, 1981.
- Brindley, Glen O.**, *Associate Professor of Surgery*. (1981, 1986) B.A., University of Texas at Austin, 1971; M.D., University of Texas Medical Branch at Galveston, 1975.

- Brindley, Hanes H., Jr.**, *Assistant Professor of Surgery*. (1981) B.A., University of Texas at Austin, 1965; M.D., University of Texas Medical Branch at Galveston, 1972.
- Brindley, Hanes H., Sr.**, *Professor of Surgery*. (1979, 1981) B.S., University of Texas, 1938; M.D., Washington University of St. Louis College of Medicine, 1942; M.A., University of Texas, 1948; M.S., University of Tennessee, 1950.
- Brodgers, C. William**, *Professor of Surgery*. (1979, 1981) M.D., University of Nebraska College of Medicine, 1947.
- Brooks, Gary R.**, *Associate Professor of Psychiatry and Behavioral Science*. (1979, 1985) B.S., Boston State College, 1969; Ph.D., University of Texas at Austin, 1976.
- Brossman, Gene F.**, *Clinical Associate Professor of Radiology*. (1981) B.S., Texas A&M University, 1963; M.D., University of Texas Medical Branch at Galveston, 1967.
- Brown, A. Kenna, Jr.**, *Professor of Surgery*. (1977, 1981) B.S., The Citadel, 1942; M.D., University of Tennessee College of Medicine, 1945.
- Bryan, John N.**, *Clinical Associate Professor of Family and Community Medicine*. (1981) A.B., Baylor University, 1941; M.D., Baylor College of Medicine, 1944.
- Burke, Robert E.**, *Instructor in Pediatrics*. (1985) B.S., Wilkes College, 1970; M.S., Penn State University, 1972; Ph.D., 1976; M.D., University of Texas Medical School at San Antonio, 1982.
- Cabrera, Domingo J.**, *Clinical Assistant Professor of Family and Community Medicine*. (1979, 1981) B.S., Institute of Secondary Education of Havana (Cuba), 1946; M.D., University of Havana School of Medicine (Cuba), 1953.
- Caln, Phillip T.**, *Associate Professor of Internal Medicine*. (1979, 1987) B.S., Texas Christian University, 1971; M.D., University of Texas Medical Branch at Galveston, 1974.
- Campbell, C. David**, *Clinical Professor of Family and Community Medicine*. (1981) M.D., Baylor College of Medicine, 1954.
- Canales, Luis**, *Associate Professor of Radiology*. (1987) B.S., University of Puerto Rico, 1954; M.D., 1958.
- Cannon, Marvin S.**, *Associate Professor of Anatomy*. (1976) B.S., University of Toledo, 1960; M.S., 1965; Ph.D., Ohio State University, 1969.
- Capen, Charles V.**, *Associate Professor of Obstetrics and Gynecology*. (1984) B.S., University of Tennessee, 1970; M.D., 1973.
- Caperton, Clyde M.**, *Clinical Associate Professor of Internal Medicine*. (1978, 1981) M.D., University of Texas Southwestern Medical School, 1955.
- Carabasi, Robert J.**, *Professor of Internal Medicine*. (1979, 1984) M.D., Jefferson Medical College, 1948.
- Caraveo, Juan**, *Associate Professor of Internal Medicine*. (1979, 1987) B.S., Instituto Regional de Chihuahua, 1962; M.D., Universidad Autonoma de Chihuahua, 1969.
- Carlson, Robert G.**, *Associate Professor of Surgery*. (1986) B.A., University of Minnesota, 1950; M.D., University of Minnesota Medical School, 1954; M.S., University of Minnesota, 1969.
- Carpentier, William R.**, *Associate Professor of Radiology*. (1979, 1981) M.D., University of British Columbia, 1961; M.S., Ohio State University, 1964.
- Carrigan, Esther E.**, *Lecturer in the Medical Sciences Library*. (1983) B.A., State University College at Fredonia, 1972; M.L.S., State University of New York at Buffalo, 1975.
- Cauthen, Don B.**, *Professor and Head of Family and Community Medicine* (1980, 1981) B.A., Southern Methodist University, 1966; M.D., University of Texas Southwestern Medical School, 1970.
- Caylor, Art B.**, *Assistant Professor of Family and Community Medicine*. (1987) B.S., University of Texas at Austin, 1977; M.D., University of Texas Medical School at San Antonio, 1981.
- Champney, Thomas H.**, *Assistant Professor of Anatomy*. (1985) B.S., Southampton College of Long Island University, 1979; M.A., Colgate University, 1980; Ph.D., University of Texas Medical School at San Antonio, 1984.

- Chandler, James B., Jr.**, *Associate Professor of Internal Medicine*. (1979, 1984) B.S., University of Georgia, 1954; M.D., Medical College of Georgia, 1960.
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- Webb, John R.**, *Clinical Associate Professor of Family and Community Medicine*. (1981) B.S., Texas Tech University, 1962; M.D., University of Texas Medical Branch at Galveston, 1966.
- Weed, John M., III**, *Clinical Associate Professor of Family and Community Medicine*. (1981) B.A., Texas Tech University, 1968; M.D., University of Texas Medical Branch at Galveston, 1972.
- Weeks, Craig D.**, *Assistant Professor of Surgery*. (1986) B.S., University of Nebraska, 1969; M.D., University of Nebraska College of Medicine, 1971.
- Weinblatt, Jack S.**, *Clinical Associate Professor of Family and Community Medicine*. (1982) M.D., Baylor College of Medicine, 1951.
- Weinblatt, James S.**, *Clinical Assistant Professor of Internal Medicine*. (1982) B.S., University of Texas at Austin, 1975; M.D., University of Texas Medical School at San Antonio, 1979.
- Welch, C. Charles**, *Associate Professor of Internal Medicine*. (1979, 1981) B.S., Northwestern University, 1952; M.D., Northwestern Medical School, 1955.
- Wells, Lawrence H.**, *Clinical Assistant Professor of Family and Community Medicine*. (1985) B.S., Texas A&M University, 1977; M.D., University of Texas at San Antonio, 1980.
- *White, Joseph G.**, *Assistant Professor of Internal Medicine*. (1987) B.S., Texas A&M University, 1980; M.D., Texas A&M University College of Medicine, 1982.
- White, Raleigh R., IV**, *Professor of Surgery*. (1979, 1986) B.A., Southern Methodist University, 1963; M.D., University of Pennsylvania, 1967.
- Wilkinson, James T.**, *Associate Professor of Internal Medicine*. (1981, 1985) B.S., Lamar University, 1972; M.D., University of Texas Medical Branch at Galveston, 1976.
- Williams, Kathleen F.**, *Assistant Professor of Internal Medicine*. (1985) M.D., University of Texas Medical Branch at Galveston, 1978.
- Williams, Shirley A.**, *Assistant Professor of Internal Medicine*. (1982) B.S., Bradley University, 1973; M.D., University of Iowa School of Medicine, 1977.
- Williams, Troy H.**, *Professor of Internal Medicine*. (1983, 1985) B.A., Virginia Military Institute, 1960; M.D., Medical College of Virginia, 1964.

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

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

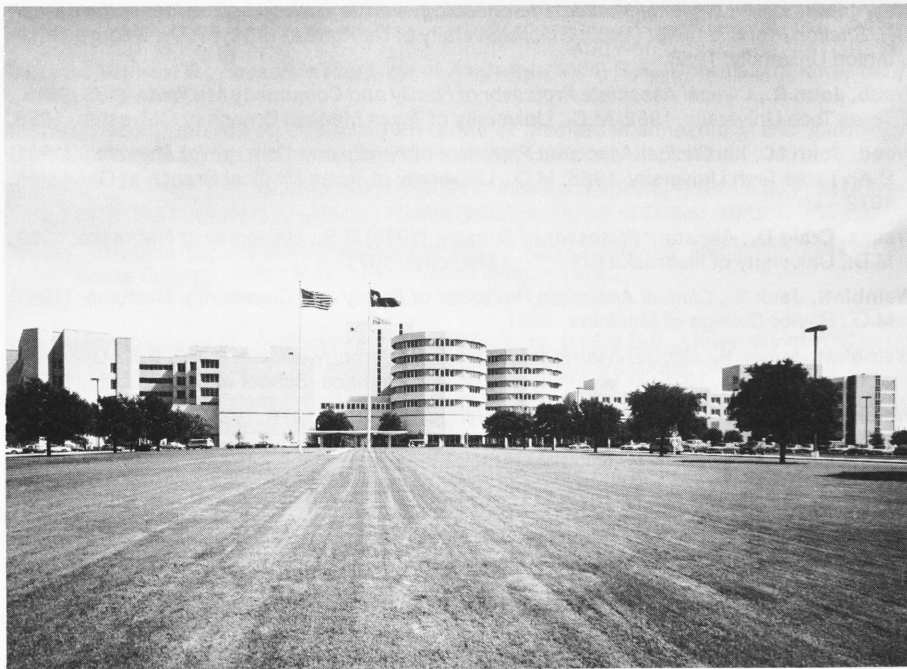
Wincek, Thomas J., *Assistant Professor of Obstetrics and Gynecology*. (1984) B.S., University of Minnesota, 1970; Ph.D., University of Utah College of Medicine, 1974; M.D., Washington University School of Medicine, 1977.

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

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

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

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



Scott and White Memorial Hospital and Clinic

GENERAL INFORMATION

TEXAS A&M UNIVERSITY

Texas A&M University, the state's oldest public institution of higher learning, opened in 1876 with six students in its charter class. In the years that followed, Texas A&M evolved from an all-male military institution into a coeducational university with about 33,000 undergraduate and 6,500 graduate students enrolled in ten academic colleges.

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

The main campus of Texas A&M is situated on 5,200 acres in College Station, Texas. Its physical plant is assessed at approximately \$1 billion. Texas A&M has the largest university research budget in the South and Southwest and is among the top ten universities nationally in research expenditures. Its funded research exceeded \$176 million in 1987.

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 the federal government under the Teague-Cranston Bill — The Veterans Administration Medical School Assistance and Health Manpower Training Act. The organization and procedures that govern the College of Medicine conform with the laws of the State of Texas, the *Objectives, Rules, and Regulations* for the Texas A&M University System, and the *Bylaws of the College of Medicine*.

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

Presently, class size is stabilized at 48 medical students. Their first two years of instruction take place at Texas A&M University in College Station. The College is housed in the Medical Sciences Building, which was first occupied in 1983, and in

the Medical Sciences Library, which opened its doors in 1985. Their second two years of instruction take place on the clinical campus in Temple, Texas, which is located at the Scott and White Memorial Hospital and Clinic and the Olin E. Teague Veterans' Center.

The College of Medicine has established a record for excellence in both medical education and research. Five of the seven classes that have graduated from the College have achieved the highest composite score among all Texas medical schools on the Federated Licensing Examination (FLEX). The other two classes ranked second overall. Faculty members at the College are engaged in medical research that is supported by more than \$3.2 million in grants from the government, corporations and private charities.

INSTITUTIONAL OBJECTIVES

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

The faculty of the College is composed of 580 basic scientists and physicians. The majority of the 85 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 330 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 staff at the Veterans Administration Medical Centers in Marlin and Waco or are private practitioners elsewhere in Texas.

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

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

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

Medical education, of course, involves much more than the transfer of scientific information and techniques of patient care. A physician must cultivate a thoughtful moral and ethical outlook. Faculty members expect students to have high ethical

standards, and they stand ready to lend assistance through whatever periods of personal uncertainty students may encounter. Personal counseling and formal classes in ethics and humanities are provided to reinforce the fundamental influence of committed role models. Students at the College of Medicine can expect to associate closely with faculty members in all phases of the curriculum because the College maintains a small class size and a favorable faculty to student ratio.

With special guidance from faculty advisors, students may modify their educational programs to conform with personal interests and goals. Individualized programs may include student-initiated electives, participation in the M.D./Ph.D. program in medical sciences, as well as the opportunity to enroll in master's or doctoral level programs elsewhere in the University. These options permit the exceptional student to combine a background in medicine with other bodies of knowledge not commonly joined to it. A student at the Texas A&M University College of Medicine is in a position to benefit greatly from the wide spectrum of educational opportunities available by participating in a program that can selectively use the special strengths of a major university, an exemplary multispecialty group medical practice, individual practitioners of medicine, the medical program of the Veterans Administration, and local private or public health care agencies.

ADMISSION FOR MEDICAL STUDENTS

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

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

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

Prerequisites

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

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

Sophomore Admission

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

The Application Process

Admission is granted only for the beginning of each academic year. Applications must be submitted between June 1 and November 1, 1988, for admission to the College of Medicine in the 1989-1990 academic year. Applications must be submitted between June 1 and November 1, 1989, for admission to the College of Medicine in 1990-1991. Application forms may be obtained from the Office of Student Affairs. To be considered for admission to the College of Medicine, an applicant must submit the following:

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

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

Interviews

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

Letters of Acceptance

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

Selection Factors

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

ADMISSION FOR GRADUATE STUDENTS

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

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

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

Prerequisites

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

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

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

The Application Process

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

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

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

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

STUDENT FINANCIAL AID

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

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

Short-term emergency loans up to \$250 are available to medical students from the College of Medicine Office of Student Affairs. Short-term loans up to \$750 are available from the Texas A&M University Office of Financial Aid.

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

Scholarships

American Association of University Women Educational Foundation Fellowship
American Medical Association — Education and Research Fund
Arthur T. Ippen Medical Scholarship
Charlotte M. Tompkins Scholarship Fund
Clark A. and Pauline Mathews '27 Scholarship Fund
College of Medicine Scholarship
Donald Niederer Scholarship in Medicine
Dr. Sidney Conolly Class of '39 Scholarship
Exceptional Financial Need Scholarship
James H. and Minnie M. Edmonds Educational Foundation
Joseph B. Collerain Endowment Scholarship
The Joseph Collins Foundation
Manila Reynolds Scholarship in Medicine

National Hispanic Scholarship Fund
 National Medical Fellowships, Inc.
 Patricia A. Ward Scholarship Fund
 R.D. "Jim" Little '34 Endowed Scholarship
 Richard H. Harrison Scholarship in Medicine
 Sam Houston Sanders Scholarship in Medicine
 Sam W. Law M.D. Memorial Scholarship Fund
 State Student Incentive Grant
 TAMU Corps of Cadets March of Dimes Scholarship
 TAMU Spring Awards Program
 Texas Aggie Medical School Assistance Fund
 Texas Medical Association Louise Berekman Memorial Scholarship Fund
 Texas Public Education Grant
 Tuition Scholarships
 William W. Maxwell Endowed Scholarship

Loans

American Medical Association Education and Research Loan Fund
 American Medical Student Association (AMSA) Personal Loan Program
 American Medical Women's Association, Inc., Loan Program
 Auxiliary Student Loan Fund
 Brazos-Robertson Counties Medical Society Medical Related Careers Fund
 Dr. May Owen Trust Fund
 Ella Kate and Wallace Ralston Medical Student Loan
 Franklin Lindsay Student Aid Fund
 The George Plunkett Red Fund
 Health Education Assistance Loan (HEAL) Program
 Hinson-Hazlewood Health Education Assistance Loan
 Minnie Stevens Piper Loan Program
 National Association of Residents and Interns Student Loan Program
 National Direct Student Loan Program
 Pasadena Area A&M Mothers' Club Emergency Loan Program
 Texas Guaranteed Student Loan Program

Awards

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

EXPENSES FOR MEDICAL STUDENTS

The expenses listed in this section for 1988-1989 are estimates and are subject to changes by the Board of Regents, The Texas A&M University System, the Texas State Legislature or other agencies. The expenses are calculated for a typical medical student enrolled in the standard College of Medicine curriculum. Nonresident tuition is four times the resident tuition.

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

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

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

Estimated Academic Costs — College Station Campus (Years 1 and 2)

	Fall Term	Winter Term	Spring Term	Annual Total
*Tuition (statutory amount regardless of course load)				
Resident	\$1,600.00	\$1,600.00	\$1,600.00	\$ 4,800.00
Fees	260.00	260.00	260.00	780.00
Books and Supplies	<u>465.00</u>	<u>465.00</u>	<u>465.00</u>	<u>1,395.00</u>
Total Academic Costs	\$2,325.00	\$2,325.00	\$2,325.00	\$ 6,975.00

Estimated Room and Board

Total	\$1,600.00	\$1,600.00	\$1,600.00	<u>\$ 4,800.00</u>
Estimated Annual Cost for Residents in Years 1 and 2				<u>\$11,775.00</u>

Estimated Academic Costs — Temple Campus (Years 3 and 4)

	Fall Term	Spring Term	Annual Total
*Tuition (statutory amount regardless of course load)			
Resident	\$2,400.00	\$2,400.00	\$ 4,800.00
Fees	140.00	140.00	280.00
Books and Supplies	<u>525.00</u>	<u>525.00</u>	<u>1,050.00</u>
Total Academic Costs	\$3,065.00	\$3,065.00	\$ 6,130.00

Estimated Room and Board

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

Total	\$3,000.00	\$3,000.00	<u>\$6,000.00</u>
Estimated Annual Cost for Residents in Years 3 and 4			<u>\$12,130.00</u>

*Tuition for 1989-1990 is expected to be \$5,463.00

FEES FOR GRADUATE STUDENTS

Tuition and required fees listed here for the 1988-89 academic year are based on the most current information available at the time of printing and are subject to change.

Required Fees

Tuition: Resident students pay \$16 per semester credit hour, but the total of such charge shall be not less than \$100 per semester or \$50 per summer term. Nonresident and international students pay \$120 per semester credit hour. Nonresident and international students who are awarded graduate assistantships or fellowships pay \$16.00 per semester credit hour.

Building Use Fee: This fee, at the rate of \$6 per semester credit hour, is required of all students to cover bonded indebtedness incurred for the expansion, air conditioning and/or rehabilitation of the Memorial Student Center, G. Rollie White Coliseum, Auditoria, Library, Kyle Field Stadium, University Health Center and other campus facilities.

Student Services Fee: All students pay this fee at the rate of \$5.20 per semester credit hour (not exceeding \$61.00 per semester, \$45.75 per quarter or \$30.50 per summer term). It covers the services at the Memorial Student Center, medical services and Intramural-Recreational Sports. It also entitles the student to receive The Battalion newspaper, reduced admission to many MSC programs and services of the Student Legal Advisor, Student Counseling Service and Student Activities.

International Student Fee: This \$12 fee is required of all international students to offset the cost of services and materials for the special administration of international students such as visa verification, changes and extensions; work permits; socio/cultural/academic adjustments and issuing I-20's for travel.

Student Center Complex Fee: This \$20 fee is required of all students for maintaining, improving and equipping the Student Center Complex.

Health Center Fee: This \$15 fee is required of all students for the purpose of operating, maintaining and equipping the University Health Center and entitles students to use its services. These services do not include surgical operations or charges for consultations with outside physicians requested by parents.

Identification Card: This \$5 fee is required of all students. This card is used for registration, fee collection, financial aid disbursement, laundry service, dining hall authorization, library privileges, etc. There is a \$2 charge for summer students not enrolled during the fall and spring semesters.

Late Payment Fees: Students who register (including payment of fees) on the first day of University classes and thereafter pay a late fee of \$10. Students who fail to pay installments when due are assessed a \$10 late payment fee for each installment paid late.

Installment Payment Service Charge: Students who choose to pay using the two or four payment installment plan pay a \$10 installment payment service charge. This charge is nonrefundable once a payment has been made.

Reinstatement Fee: Students who fail to pay all fees by the last day of the semester will be administratively withdrawn from the University and charged a \$50 reinstatement fee.

TUITION AND REQUIRED FEES TABLE--1988-89 ACADEMIC YEAR

No. of Hours	Tuition Resident Students	*Tuition										*Total for Internat'l Students
		*Tuition & Internat'l Students	Student Services Fee	Internat'l Student Fee	Building Use Fee	Student Center Complex	Health Center Fee	Total for Resident Students	*Total for Nonresident Students			
1	\$100.00	\$ 120.00	\$ 5.20	\$12.00	\$ 6.00	\$20.00	\$ 0.00	\$131.20	\$ 151.00	\$ 163.20		
2	\$100.00	\$ 240.00	\$10.40	\$12.00	\$ 12.00	\$20.00	\$ 0.00	\$142.40	\$ 282.40	\$ 294.40		
3	\$100.00	\$ 360.00	\$15.60	\$12.00	\$ 18.00	\$20.00	\$ 0.00	\$153.60	\$ 413.60	\$ 425.60		
4	\$100.00	\$ 480.00	\$20.80	\$12.00	\$ 24.00	\$20.00	\$ 0.00	\$164.80	\$ 544.80	\$ 556.80		
5	\$100.00	\$ 600.00	\$26.00	\$12.00	\$ 30.00	\$20.00	\$ 0.00	\$176.00	\$ 676.00	\$ 688.00		
6	\$100.00	\$ 720.00	\$31.20	\$12.00	\$ 36.00	\$20.00	\$15.00	\$202.20	\$ 822.20	\$ 834.20		
7	\$112.00	\$ 840.00	\$36.40	\$12.00	\$ 42.00	\$20.00	\$15.00	\$225.40	\$ 953.40	\$ 965.40		
8	\$128.00	\$ 960.00	\$41.60	\$12.00	\$ 48.00	\$20.00	\$15.00	\$252.60	\$1,084.60	\$1,096.60		
9	\$144.00	\$1,080.00	\$46.80	\$12.00	\$ 54.00	\$20.00	\$15.00	\$279.80	\$1,215.80	\$1,227.80		
10	\$160.00	\$1,200.00	\$52.00	\$12.00	\$ 60.00	\$20.00	\$15.00	\$307.00	\$1,347.00	\$1,359.00		
11	\$176.00	\$1,320.00	\$57.20	\$12.00	\$ 66.00	\$20.00	\$15.00	\$334.20	\$1,478.20	\$1,490.20		
12	\$192.00	\$1,440.00	\$61.00	\$12.00	\$ 72.00	\$20.00	\$15.00	\$360.00	\$1,608.00	\$1,620.00		
13	\$208.00	\$1,560.00	\$61.00	\$12.00	\$ 78.00	\$20.00	\$15.00	\$382.00	\$1,734.00	\$1,746.00		
14	\$224.00	\$1,690.00	\$61.00	\$12.00	\$ 84.00	\$20.00	\$15.00	\$404.00	\$1,860.00	\$1,872.00		
15	\$240.00	\$1,800.00	\$61.00	\$12.00	\$ 90.00	\$20.00	\$15.00	\$426.00	\$1,986.00	\$1,998.00		
16	\$256.00	\$1,920.00	\$61.00	\$12.00	\$ 96.00	\$20.00	\$15.00	\$448.00	\$2,112.00	\$2,124.00		
17	\$272.00	\$2,040.00	\$61.00	\$12.00	\$102.00	\$20.00	\$15.00	\$470.00	\$2,238.00	\$2,250.00		
18	\$288.00	\$2,160.00	\$61.00	\$12.00	\$108.00	\$20.00	\$15.00	\$492.00	\$2,364.00	\$2,376.00		
19	\$304.00	\$2,280.00	\$61.00	\$12.00	\$114.00	\$20.00	\$15.00	\$514.00	\$2,490.00	\$2,502.00		
20	\$320.00	\$2,400.00	\$61.00	\$12.00	\$120.00	\$20.00	\$15.00	\$536.00	\$2,616.00	\$2,628.00		
21	\$336.00	\$2,520.00	\$61.00	\$12.00	\$126.00	\$20.00	\$15.00	\$558.00	\$2,742.00	\$2,754.00		

Note: Add property deposit, I.D. Card Fee, Physical Education Service Fee, laboratory fees and optional charges as required.
 *Nonresident and international students who are awarded a fellowship or assistantship are given resident status and pay tuition at resident rates.

Required Fees Based On Specific Courses

Laboratory Fees: Laboratory fees ranging in amount from \$2 to \$8 are charged for each laboratory course each semester.

Physical Education Service Fee: All students taking physical education activities courses will be required to pay a \$12 service fee for each activity course.

Field Trip Fees: Field trip fees are assessed to cover the cost of providing trips and vary depending on the course taken and expected expenses.

Other Fees

Diploma Fee (all degree candidates)	\$15.00
Binding and Collating Fees:	
Master's students (thesis option only)	\$42.50
Doctoral students (includes microfilming fee)	\$80.00

Deposits

Property Deposit: Every student, unless registered *in absentia*, must make a property deposit to protect the University from damage to or loss of University property. Charges will be billed directly to the student or collected by the department upon reissue of supplies or property. Failure to pay the charges promptly will cause the student to be barred from readmission and receiving an official transcript from the University. If a student withdraws without paying the charges, the deposit will be held for 30 days after the close of a semester or a student's withdrawal, so that all charges and fines may be totaled from the various departments. This deposit, less outstanding charges, will be returned **upon request** to the student graduating or withdrawing from school. **Deposits not requested within four years from date of last attendance will be forfeited into a student deposit scholarship account.**

Student Options

Housing: On-campus housing is not available for graduate students **except** during summer school. Summer school housing information will be available in April. Graduate housing is available in the TAMU Student Apartments. For more information contact:

Student Apartments Office
Texas A&M University
College Station, TX 77843

Board: Texas A&M University has two student board dining facilities available to graduate students: Commons and Sbisa. Residents of Krueger-Dunn-Mosher-Aston-Underwood eat in the cafeteria located in the Commons. Residents in the northwest part of campus eat at Sbisa Dining Center. Sbisa has been remodeled recently to offer students a wide variety of fast foods including hamburgers, pizzas, french fries, fried chicken, soup and sandwiches as well as conventional cafeteria meals. The cost of the meal plan is the same in all areas.

Three meal plans are offered each semester:

- 5-day plan - 3 meals each day, Monday-Friday-\$644.42
- 7-day plan - 3 meals each day, Monday-Saturday, breakfast and lunch on Sunday-\$691.72
- Any 12 plan - Student's choice of 12 meals of the 20 served, Monday-Saturday, breakfast and lunch on Sunday-\$625.49

Serving Hours

Breakfast	6:15 a.m. - 10:15 a.m.
Lunch	10:15 a.m. - 2:15 p.m.
Dinner	4:15 p.m. - 7:00 p.m.

Off-campus students may select the 5-day, 7-day or any 12 meal plan. Off-campus students may be assigned to a particular dining facility depending on space availability.

Laundry: Weekly laundry service costs \$93.04 per semester and includes such washable items as shirts, jeans, skirts, sheets, pillowcases and towels. It does not include items which require dry cleaning or special handling such as permanent press items.

Bus Pass: A bus pass costs \$46 per semester. Bus routes cover the campus and various sections of the city. Routes are based on areas where large numbers of students live.

Parking Permit: Students driving motor vehicles on university property must register them at the University Police Department no later than 48 hours after arriving on campus. Costs of parking permits are as follows:

Female dorm students-two semesters-\$66

Male dorm students-two semesters-\$66

Male dorm students with less than 60 hour and students living off campus-two semesters-\$47

Motorcycle (including mopeds and scooters)-academic year-\$30

Football Ticket Books: The ticket book charge is based on the number of home games at \$7.50 per game.

All Sports Pass: The all sports pass provides student tickets for all home sports and is based on the number of home football games at \$7.50 per game plus \$15.

Aggieland (Yearbook): This \$20 charge is for a copy of the *Aggieland*.

Picture In Yearbook: This \$1 charge is for a student's picture in the *Aggieland*.

Student Directory: This \$2.63 charge is for a student directory.

WITHDRAWAL FROM THE UNIVERSITY

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

REFUNDS

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

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

Fall, Spring or 10-Week Summer Semester

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

Laundry: Laundry charges are refundable in full prior to the first day of classes. After classes begin no refunds will be made except in case of official withdrawal at which time a pro rata refund computed on a weekly basis will be made.

In case of consecutive absence of 10 or more days due to illness of the student or family member or for some other unavoidable cause, a pro rata refund computed on a weekly basis will be made.

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

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

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

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

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

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

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

DROP/ADD REFUNDS

A student may drop courses during the first 12 class days of a fall or spring semester and during the first 4 class days of a summer term or a 10-week summer semester. A student may add courses during the first 5 class days of a fall or spring semester and during the first 3 days of a summer term or a 10-week summer semester. Full refunds or supplemental billings will be made for courses dropped or added during these times. Notices of refunds due or amounts owed will be mailed to the student's local address. NOTE: Refunds will **not** be made for courses dropped during the Q-drop period.

Students are not allowed to drop all of their courses through the drop/add process. Once they have registered and paid fees, students must go through the withdrawal process in order to drop all courses and withdraw from the University.

REDUCTIONS

No reduction will be made in the charge for board in case of entrance within 10 days after the opening of a semester or summer term, nor will a refund be made in case of withdrawal during the last 10 days of a semester or summer term, or the last days for which payment is made.

UNPAID CHECKS

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

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

CASH NEEDS

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



ACADEMIC RULES AND REGULATIONS

Handbooks for Medical Students

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

Graduate Student Rules and Regulations

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

Grading

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

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

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

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

A grade of A, B, C or, in certain designated courses, S, must be attained in all required courses of the medical curriculum in order to satisfy the requirements of the M.D. degree. The minimum overall grade point ratio a medical student must maintain to remain in good academic standing is 2.00.

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

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

DEGREE INFORMATION

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

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

The Bachelor of Science Degree

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

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

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

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

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

- 1) Summa Cum Laude is awarded to students with grade point ratios of 3.900 or above;
- 2) Magna Cum Laude is awarded to students with grade point ratios in the range of 3.700 through 3.899;
- 3) Cum Laude is awarded to students with grade point ratios in the range of 3.500 through 3.699.

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

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

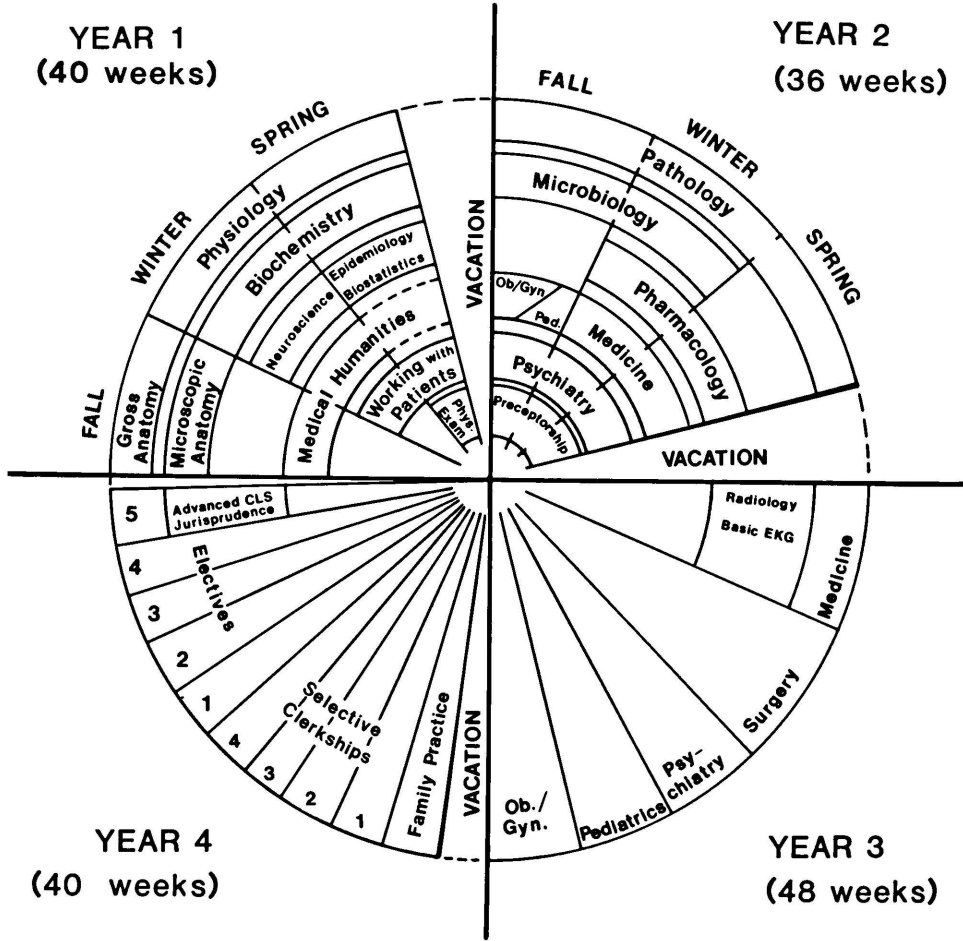
The Doctor of Medicine Degree

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

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

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

COLLEGE STATION CAMPUS



TEMPLE CAMPUS

CURRICULUM

The Doctor of Medicine Degree

The curriculum program for the Doctor of Medicine degree requires four years of study. The first two years of the program are taught on the Texas A&M University campus in College Station; the second two years take place on the Temple campus at the Olin E. Teague Veterans' Center and the Scott and White Memorial Hospital and Clinic. By arrangement through their faculty advisors, students may undertake elective experiences for academic credit at other locales.

The curriculum is oriented principally along conventional disciplinary lines; nevertheless, courses are scheduled to assure a high degree of integration of subject matter across disciplines. Correlation of basic sciences with clinical medicine is provided in a number of ways:

- 1) The use of clinically trained teachers in most program areas;
- 2) Clinical correlation experiences in all of the courses;
- 3) Instruction in the acquisition of clinical skills during the first year;
- 4) The opportunity to practice and polish fundamental clinical skills under the supervision of faculty members and practicing physicians a half day each week during the entire second year in the curriculum.

The Curriculum Committee, composed of faculty members appointed from each department, four students, and the deans of the College in an ex officio capacity, coordinates the curriculum of the College, maintains a continuous review of the course of study in medicine, and makes appropriate revisions. Actions of the Curriculum Committee are subject to review and approval by the College of Medicine Academic Council.

The basic science curriculum in the first two years includes courses in anatomy, biochemistry, physiology, pathology, pharmacology, microbiology, humanities in medicine, epidemiology, biomeasurements, environmental medicine, and introductions to the clinical disciplines.

The clinical curriculum in the final two years consists of courses in radiology, medical jurisprudence, and basic electrocardiography and echocardiography, and of clerkships in internal medicine, surgery, pediatrics, obstetrics and gynecology, psychiatry, and family practice. Students must also select 16 weeks of clerkships from the following areas: general medicine, neurology, dermatology, otorhinolaryngology, ophthalmology, orthopedics, ambulatory medicine, urology, clinical and anatomic pathology, rehabilitation and physical medicine, emergency medicine, radiology, anesthesiology, ambulatory pulmonary medicine, gastroenterology clinic, clinical pulmonology, plastic surgery, and geriatric medicine. Students usually spend some time off-campus during the fourth year of study; many select clerkships at medical institutions where they might request residency positions for their graduate medical education. Some students use this opportunity to travel abroad and study foreign health care systems.

Electives are included as part of the curriculum and are available in both basic and clinical sciences. Electives may be taken both on and off campus. Some electives offered within the College of Medicine include instruction on alcoholism, community medicine, drug abuse, emergency medicine, ethical problems in medicine, geriatrics, human sexuality, nutrition, occupational medicine and environmental health hazards, and patient education.

A handbook issued in December to third year students entitled *4th Year Electives* gives extensive course listings of clinical electives offered and instructions for elective scheduling.

A National Board Special Examination is administered to students at the conclusion of each subject. Graduates who wish to practice medicine in Texas are required by the state to pass the Federated Licensing Examination (FLEX).

Professional Curriculum in Medicine

Year 1	Clock hours	Year 2	Clock hours
Gross anatomy	192	Pathology	272
Microscopic anatomy	96	Microbiology	164
Neuroanatomy	102	Pharmacology	146
Physiology	164	Introduction to Medicine	156
Biochemistry	164	Introduction to Clinical Psychiatry	63
Behavioral science	36	Preceptorship	102
Introduction to patients	22	Introduction to Obstetrics/Gynecology	50
Physical diagnosis	48	Introduction to Pediatrics	40
Medical humanities	48		
Epidemiology/biomeasurements/ environmental medicine	48		
Year 3		Year 4	
Core clerkship in Internal Medicine	12 weeks	*Selective clerkships	16 weeks
Core clerkship in Surgery	12 weeks	Clerkship in Family Practice	4 weeks
Core clerkship in Pediatrics	8 weeks	*Electives	20 weeks
Core clerkship in Obstetrics/Gynecology	8 weeks	Medical Jurisprudence	18 hours
Core clerkship in Psychiatry	8 weeks		
Principles of Radiology	18 hours		
Basic EKG and echocardiography	10 hours		
		*4 weeks in neurology must be taken in one or the other category.	

Student Research Opportunities

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

In addition, first year students can apply for the Summer Collegiate Research Fellowship Program or the Summer Minority Collegiate Research Fellowship Program. Applications are available from the College of Medicine Office of Student Affairs.

The Doctor of Philosophy Degree

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

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

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

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

The core courses requirement is flexible. At least 15 credit hours must be core courses in the medical sciences curriculum. Courses taken elsewhere that are equivalent to core courses in concept can be substituted for a maximum of 13 credit hours in the core program. Students with advanced standing in core course disciplines may have the requirement waived and proceed directly to a more advanced course sequence.

The program also requires each student to take a methodology course for 3-5 credits in a basic science discipline different from his or her area of research interest. This collateral experimental problem, selected by consultation between the student and his or her committee, may complement the thesis problem or be supplemental to it.

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

The College of Medicine calendar is independent from other University schedules. The academic year for graduate study is divided into three terms and a summer session that is usually used for research.

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

POSTGRADUATE MEDICAL EDUCATION

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

Scott and White Memorial Hospital has sponsored specialty training programs since it was accredited in 1920, and it has 140 residents and fellows in training during 1987-1988. Approximately 23 percent of the Texas A&M College of Medicine Class of 1987 was matched with Scott and White for residencies that began in 1987. In several specialty areas, Scott and White is affiliated for training purposes with the Olin E. Teague Veterans' Center, Darnall Army Hospital at Fort Hood, the Shriners Hospital for Crippled Children in Houston, and others. Scott and White offers graduate medical education programs in general surgery, urology, anesthesiology, ophthalmology, orthopaedic surgery, pathology, pediatrics, obstetrics and gynecology, diagnostic radiology, family medicine and internal medicine. The Department of Internal Medicine offers fellowship training in four subspecialties: gastroenterology, cardiology, pulmonary medicine, and endocrinology and metabolism.

For more information, contact the Graduate Medical Education Department, Scott and White, or the program director in the specialty desired.

STUDENT GOVERNANCE

Students participate in most committees that govern student activities in the College of Medicine. Students from each class are appointed to the standing committees on Curriculum and Admissions. Students also serve on temporary committees where their advice is needed.

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

STUDENT AFFAIRS

Health Services

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

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

Housing

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

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

Health Insurance

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

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

Liability Insurance

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

Psychological Counseling

Psychological counseling is available from both Texas A&M University and the College of Medicine. Texas A&M University offers confidential limited duration professional psychological counseling free to all students. The Student Counseling Service is located on the third floor of the YMCA Building; students may call 845-1651, or visit anytime between 8 a.m.-5 p.m. In an emergency at night or on weekends, students needing help may go to the Student Health Center and use the urgent care entrance.

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

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

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

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

William E. Ward, Ph.D., Associate Dean for Student Affairs, College Station
Dennis Myers, M.D., Assistant Dean for Student Affairs, Temple.

Academic Counseling

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

Tutoring

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

Minority Affairs

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

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

STUDENT ORGANIZATIONS AND HONOR SOCIETIES

Student Organizations

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

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

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

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

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

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

Honor Societies

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

FACILITIES

The College Station Campus

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

The Temple Campus

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

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

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

Scott and White maintains 14 regional clinics in Temple, Killeen, McGregor, Moody, Hewitt, Waco, Gatesville, Caldwell, Taylor, Belton, Bellmead and College Station, Texas. The Scott and White clinic in College Station, opened in 1986, is staffed by more than thirty physicians in seventeen medical specialties. The Texas A&M University College of Medicine departmental offices for Internal Medicine, Obstetrics and Gynecology, Pediatrics, Psychiatry and Behavioral Science, Radiology, and Surgery are housed at the Scott and White Hospital and Clinic. The Family and Community Medicine departmental office is located in a separate clinic near the Santa Fe Center in Temple.

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

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

new 408 bed domiciliary complex began in early 1987. Completion of the project is expected sometime in 1989. Preliminary plans are now underway for another significant addition, a 300 bed patient treatment tower.

The Olin E. Teague Veterans' Center is currently authorized to operate 523 hospital beds, 120 nursing home beds, and 408 domiciliary beds. Admissions totaled more than 10,000 in 1986, and the outpatient clinic logged more than 100,000 visits. Its annual operating budget is more than \$60 million and approximately 1,500 people are employed at the center.

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

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

Other Facilities

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

LIBRARY FACILITIES

Texas A&M University Consortium of Medical Libraries

The Texas A&M Medical Sciences Library, the College of Medicine Learning Resources Unit, the Scott and White Memorial Hospital Library, the Olin E. Teague Veterans' Administration Center Library, and the Texas A&M Media Center in Temple united in 1976 to form the Texas A&M University Consortium of Medical Libraries. The consortium library units share a state-of-the-art integrated system that provides on-line catalogs to library or remote users in College Station, Temple, or elsewhere. The LS/2000, OPT 35 System is located and maintained at the Medical Sciences Library. It not only offers 35 ways to search the public catalog, but also provides communication through electronic mail and computerized circulation systems for each library. Consortium users also continue to use the Union List of Serials within the consortium. The consortium shares materials by high speed telefacsimile and collaborates in book and serial acquisitions to avoid overlap in holdings whenever practicable.

The reference departments of libraries in the consortium offer on-line database literature search services to students, faculty members, and medical and veterinary practitioners in the region. Searchers can access more than 200 National Library of Medicine and commercial on-line databases covering a wide range of subjects including medicine, medical humanities, sociology, chemistry, economics, law and engineering. The consortium sponsors clinical librarian services for physicians and students.

Medical Sciences Library, College Station Campus

The Medical Sciences Library at Texas A&M is adjacent to the Medical Sciences Building. The library itself occupies 43,500 net square feet and has the capacity to house 110,000 bound volumes. Currently it holds 75,867 bound journals

and books and 22,931 microform volumes. The Medical Sciences Library subscribes to 2,016 serial titles at this time. The library supplements its collection by way of rapid loaning and borrowing based on local, regional, and national reciprocal agreements. Special attention is given to developing collections in ethnic medicine, bioethics, geriatrics and sports medicine. The Medical Sciences Library continues to develop and offer remote access capabilities for all users by way of dial in, dedicated line and port selector access to the LS/2000 System. Most recently, the Medical Sciences Library has provided local access to Medline databases through use of compact disks. Faculty and students from the College of Medicine and Veterinary Medicine are the primary users of the collection and services.

Learning Resources Unit

The Learning Resources Unit occupies 6,100 square feet of the first floor of the Medical Sciences Library Building. The unit houses approximately 2,000 self-instructional audiovisual programs and 1,200 basic medical text and reference books in an open stack system. The LRU provides twenty-two study carrels with video, slide and audiocassette playback equipment and eight small rooms, containing chalkboards and audiovisual playback equipment, for group study. Two binocular microscopes, six microcomputers with diagnostic, course review and wordprocessing software, two heart sound simulators, models, a test file and a copy machine are also available for student and faculty use. The LRU is open 95 hours per week with study facilities restricted to use by students and faculty members of the College of Medicine.

Temple Campus Libraries

The Scott and White Memorial Hospital Library is on the ground floor of the hospital in room 47. Its collection consists of approximately 31,000 bound journals and books and over 800 journal subscriptions. The library has a special collection of 300 volumes on the history of medicine. The Olin E. Teague Veterans' Administration Center Library is in the basement of building 163, the main building of the hospital complex. It contains about 13,000 bound journals and books and 500 journal subscriptions.

Libraries on the Temple campus provide a clinical medical librarian service for physicians and students. On request, a clinical medical librarian will accompany physicians and students on hospital rounds, note pertinent details of patient cases, and deliver appropriate reference material within a few hours.

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

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

Sterling C. Evans Library

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

BIOMEDICAL COMMUNICATIONS GROUP

The Biomedical Communications Group offices are located in the basement of the Medical Sciences Library. The group provides audiovisual materials production and communication systems management for the College of Medicine. Using video, photography, and art illustration, the group produces packages for teaching and research publications. Specialists from the group work closely with faculty members to design instructional audiovisual programs and imaging for research documentation. Specialists also operate the teleconference facility, classroom video systems, and the various microwave communication links.

COMMUNICATIONS AND COMPUTER FACILITIES

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

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

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

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

Data transmission, shared filing, and electronic mail are accomplished with a word processing 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 an IBM 3090 mainframe computer in the Texas A&M Computing Services Center.

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

COURSE DESCRIPTIONS

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

All courses taught by the College of Medicine are numbered from 900 to 999.

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

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

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

DEPARTMENT OF ANATOMY (MANA)

Professor J. W. Wagner (Head); **Associate Professors** M. S. Cannon, J. B. Gelderd, H. W. Sampson, M. E. Trulson; **Assistant Professors** T. H. Champney, F. Gonzalez-Lima, R. T. Matthews; **Instructor** J. E. Quarles.

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

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

Electives offered by the department include advanced courses in dissection, specialty topics in the study of the central nervous system, and more technical courses in the technique and application of both transmission and scanning electron microscopy.

Faculty members in the department have research interests in neurobiology, ultrastructure, histochemistry, and calcium metabolism.

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.
- 981. Seminar. (1-0). Credit 1.** Analysis and discussion of selected reports from current literature in the anatomical sciences. Prerequisite: 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.
- 989. Special Topics in . . . Credit 1 to 4.** Selected topics within the broad area of anatomical sciences. Prerequisite: Approval of department head.
- 991. Research. Credit 1 or more.** Original investigation of selected areas in anatomy. Prerequisite: Approval of department head.

DEPARTMENT OF FAMILY AND COMMUNITY MEDICINE (MFCM)

Professors D. B. Cauthen (Head), O. C. Cooper, C. J. Daniel, P. Davis, H. S. Lipscomb; **Clinical Professors** C. D. Campbell, J. J. Hall, B. LeBleu, J. I. Lindsay, J. T. L. McNew, H. D. Pope, Jr., S. H. Richardson; **Associate Professors** R. G. Morgan, P. W. Sundin; **Clinical Associate Professors** J. N. Bryan, J. A. Dula, D. A. Gloff, V. D. Goodall, R. W. Huddleston, K. B. Hudspeth, B. C. Jones, G. R. McIlhaney, R. W. Pearce, D. R. Segrest, J. R. Webb, J. M. Weed III, J. S. Weinblatt; **Assistant Professors** W. G. Bartels, J. E. Braden, Jr., A. B. Caylor, C. W. Clanton, R. G. Cochran, Jr., E. A. Cooney, R. Cortes, G. R. Couchman, P. H. Crumpler, R. D. Cummings, W. F. Floyd, P. D. Gerdes, G. R. Goebel, B. K. Gordon, M. P. Hagen, R. A. Henry, Jr., C. L. Jagmin, R. D. Jensen, J. A. Joseph II, W. R. Kiser, G. N. Lambert, M. J. Leshikar, W. J. Linder, O. W. Lowrey, J. E. Madsen, T. D. Maynard, D. A. McClellan, C. T. Mears, M. Mutyala, S. A. Oliver, M. A. O'Neal, W. Peeples, T. F. Pullen, J. R. Randles, A. M. Reed, E. M. Reed, M. D. Reis, L. E. Robertson, W. C. Robertson, J. R. Rosiles, R. P. Ryan, J. W. Sayre, R. A. Smith, S. L. Smith, P. A. Solomon, K. A. Stienstra, B. Stone, S. E. Stutes, D. E. Turvey, R. B. Watson, H. S. Wu; **Clinical Assistant Professors** D. C. Allison, S. D. Benold, S. A. Braden, D. J. Cabrera, R. G. Ellis, J. H. Focke III, R. L. Haydon, L. G. Hermann, R. E. Herron, R. A. Howard, G. C. Hubley, Jr., T. S. Novosad, S. D. Patel, G. J. Patton, W. Pickvance, C. A. Reynolds, H. J. Robinson, D. B. Stigler, D. E. Stuckey, M. O. Thakrar, R. C. Tongco, L. A. Vocal, 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 and spring terms of the first year, introduces students to methods for dealing with patients. Physical Diagnosis, which begins at the end of the first year and continues into the second 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 fourth year exposes students to family practice in a clinical setting.

- 912. Working with Patients II. (2-0). Credit 2.** Medical history taking and physical assessment coordinated with recognition and management of common emotional reactions among nonpsychiatrically ill patients. Factors which may influence doctor-patient relationships. Prerequisite: Admission to medical curriculum.
- 944. Clinical Preceptorship In Primary Care Medicine. (0-3). Credit 1.** Students rotate through primary care experiences in family medicine, internal medicine, pediatrics, gynecology, otorhinolaryngology, obstetrics, ophthalmology, dermatology, and orthopedics. Prerequisite: IMED 923.
- 981. Seminar. (1-0). Credit 1.** Current issues in medicine. Prerequisite: Approval of department head.
- 985. Problems. Credit 1 or more.** Assigned readings and practical or laboratory work with weekly discussion period in a selected area of family and community medicine. Prerequisite: Approval of department head.
- 989. Special Topics in . . . Credit 1 to 4.** Special study of an identified area of clinical medicine. Prerequisite: Approval of department head.
- 991. Research. Credit 1 or more.** Laboratory research in an applied aspect of the basic sciences related to clinical medicine. Prerequisite: Approval of department head.
- 992. Clerkship. Credit 5.** Full-time clerkship experiences in the offices of primary care physicians. Prerequisites: Completion of first and second years of the medical curriculum.

HUMANITIES IN MEDICINE (MHUM)

Professors J. H. Clements, J. J. McDermott (Head), D. J. Self, F. D. Wolinsky; **Assistant Professor** J. R. Pickle.

Humanities in Medicine is a charter department in the College of Medicine. The tasks of this department are fivefold: 1) to educate first year students in the basic ethical and social questions confronting the contemporary physician; 2) to acquaint the student with the classic works in the history of medicine, social medicine and the history of literature as related to medicine; 3) to integrate ethical and social concerns with the accompanying basic sciences curricula; for example, as found in the work of medical genetics or pharmacology; 4) to provide sustenance for students with regard to the developing relationship between scientific, technological and humanistic learning in the making of a physician; and, 5) to stress the complex interpersonal, social, legal and political factors in the physician-patient relationship.

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

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

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

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

- 941. Medical Jurisprudence. 18 clock hours.** Introduction to forensic medicine; interface between the law and health care institutions; the medical record as a legal document; the creation of litigious situations; practice management. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.
- 981. Seminar. (1-0). Credit 1.** Presentation by advanced students, faculty and visiting lecturers of selected topics in medical ethics, history of medicine and other areas in the humanities in medicine. Prerequisite: Approval of department head.
- 985. Problems. Credit 1 or more.** Directed individual study of specialized areas of medical ethics and the history of medicine. Prerequisite: Approval of department head.
- 989. Special Topics in . . . Credit 1 to 4.** Selected topics in an advanced area of medical humanities. Prerequisite: Approval of department head.
- 991. Research. Credit 1 or more.** Research in a specific area of medical humanities. Prerequisite: Approval of department head.

DEPARTMENT OF INTERNAL MEDICINE (IMED)

Professors R. N. Barnes, J. D. Bonnet, G. W. Brasher, R. J. Carabasi, N. Christoff, P. Davis, W. P. Dyck, A. B. Follender, P. F. Gilliland, J. R. Higgins, P. H. Howard, Jr., J. D. Ibarra, Jr., M. M. B. Kay, K. B. Knudsen, P. H. Langsjoen, H. S. Lipscomb, N. S. Mann, J. P. McManus, J. O. Morse, G. C. Okeson, R. G. Rossing, V. E. Schulze, J. C. Starr (Head), A. D. Steele, T. I. Wallace, R. E. Walsh, L. E. Watson, T. H. Williams; **Professor Emeritus** J. H. Acker, N. C. Hightower; **Associate Professors** L. M. Brewer, P. T. Cain, J. Caraveo, J. B. Chandler, Jr., S. H. Chen, D. E. Crisp, K. S. Culp, J. B. Green III, H. H. Hahn II, B. R. Hajra, D. F. Havemann, V. D. Holleman, D. L. Hurley, P. D. Larsen, J. C. Leadbeater, R. P. Lenehan, J. J. Madler, J. E. McClendon, R. G. Morgan, P. Mukhopadhyay, S. L. Norman, M. Osman, R. L. Palmer, F. Perez-Guerra, V. K. Piziak, D. P. Posey, T. V. Pursley, J. C. Robinson, H. B. Russman, S. A. Sanchez, J. A. Schuchmann, P. H. Stoltenberg, E. E. Terry, A. A. Trowbridge, C. A. Verdonk, T. Wajima, C. C. Welch, J. T. Wilkinson; **Clinical Associate Professors** C. M. Caperton, T. H. Giddings, T. M. Jones, M. E. Kahil; **Assistant Professors** R. I. Aguirre, D. M. Allen, B. W. Amaral, D. D. Barton, M. E. Bassel, B. C. Bollinger, P. D. Bolton, Jr., J. R. Bowling, H. Che, B. H. Chlapek, T. C. Coburn, R. D. Cole, G. B. Drake, D. R. Droemer, Jr., J. E. Dvoracek, G. P. Fiocco, D. S. Gantt, C. E. Geyer, Jr., E. Gowan III, D. L. Hackethorn, K. U. Hackney, Jr., L. V. Hobratch, J. A. Jackson, R. H. Jesse IV, K. M. Jew, J. W. Jundt, M. H. Kelleher, B. D. Koehler, P. D. Lemper, G. D. LeSage, D. L. Lindzey, R. J. Long, S. K. Mann, D. E. Markel, M. P. Martin, J. L. May, S. A. McMahan, M. W. Morse, D. L. Myers, I. D. Mutyala, A. E. Nickel, P. E. Ogden, W. G. Petersen, M. A. Prince-Fiocco, L. D. Price, G. Quick, M. Raebel, J. J. Rohack, R. S. Rosenberger, F. Ruzicka, M. R. Schlabach, D. J. Smith, W. G. Stanley, R. C. Stern, T. N. Tracey, S. C. Walker, J. G. White, K. F. Williams, S. A. Williams, G. R. Willie; **Clinical Assistant Professors** P. R. Alexander, D. E. Brannon, C. J. Cramm, Jr., N. M. Dave, T. F. Eska, T. A. Ginn, T. B. Hancher, A. L. Jones, K. Landgraf, R. R. Light, F. G. Lim, B. W. Marek, J. M. Mason, K. A. Patel, T. L. Rea, A. Shanmugam, K. S. Tripathy, S. S. Tseng, J. S. Weinblatt; **Instructor** V. H. Van Wormer.

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

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

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

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

- 923. Introduction to Physical Diagnosis. (2-2). Credit 3.** Physical assessment and medical history taking using bedside examination of normal volunteers. Prerequisite: MFCM 912.
- 933. Introduction to Clinical Medicine I. (3-0). Credit 3.** Multidisciplinary survey of clinical medicine presented on a human development continuum. Prerequisite: Satisfactory completion of year 1 of the medical curriculum.
- 934. Introduction to Clinical Medicine II. (7-0). Credit 7.** Continuation of IMED 933; gerontology, clinical specialties and management of death and dying. Prerequisite: IMED 933.
- 951. Basic Electrocardiography and M-mode Echocardiography. Credit 1.** Theory of electrocardiography and echocardiography; interpretation of common EKG and echocardiographic abnormalities encountered in clinical medicine. Prerequisite: Completion of years 1 and 2 of the medical curriculum.
- 982. Core Clerkship in Internal Medicine.** General internal medicine, with patient workup and management under supervision of the clinical faculty. Participation in clinical rounds, conferences, seminars, and laboratory workups. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.
- 983. Elective Clerkship in . . . 4 weeks.** Elective clerkship in a specific area of internal medicine. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.
- 984. Selective Clerkship in . . . 2 or 4 weeks.** Selective clerkship in a specific area of internal medicine. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.
- 985. Problems.** Directed study of selected problems in internal medicine. Prerequisite: Approval of department head.
- 991. Research.** Original clinical and/or laboratory investigation in a specific area of internal medicine. Prerequisite: Approval of department head.

DEPARTMENT OF MEDICAL BIOCHEMISTRY AND MEDICAL GENETICS (MBCH)

Professors G. M. Ihler (Head), M. M. B. Kay; **Professor Emeritus** J. M. Prescott; **Clinical Professor** M. K. Kukulich; **Associate Professors** S. Bassion, C. A. Daniel, D. K. Struck; **Assistant Professors** S. M. Dobin, D. S. Durica, A. C. R. Ficht, G. D. LeSage, S. M. Thacher.

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

technology to problems in medical genetics. The lectures, audiovisual material, and self-instruction programs provide integrated instruction in medical biochemistry and genetics. Small group tutorials and individual instruction are provided to students in academic difficulty.

The winter term (Medical Biochemistry I) is concerned primarily with the study of macromolecules, molecular biology, and molecular genetics. The spring term (Medical Biochemistry II) deals with intermediary metabolism; and, special emphasis is given to recent findings from molecular biology and human genetics. The final examination of Medical Biochemistry I and II is the National Board Special Administration Examination.

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

911. Medical Biochemistry I: Intermediary Metabolism. (3-3). Credit 4. Properties and metabolism of proteins, DNA, and RNA. Recombinant DNA technology and applications to human medicine. Introduction to the metabolic basis of inherited disease. Prerequisite: Admission to the medical curriculum or approval of the department head.

912. Medical Biochemistry II: Macromolecules, Molecular Biology, and Molecular Genetics. (3-2). Credit 4. Metabolic basis of inherited disease continued. Prerequisite: Admission to the medical curriculum or approval of the department head.

913. Medical Genetics. (2-2). Credit 2. 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 (Interim Head), M. M. B. Kay, L. H. Russell, Jr.; **Associate Professors** S. Bassion, A. I. B. Hillis, T. W. Huber, W. B. McCombs III, D. N. McMurray, J. M. Quarles; **Assistant Professors** B. R. Paull, V. G. Wilson.

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 two course sequence covering the diagnosis, management and prevention of infectious diseases during the fall and winter quarters of their second year of

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

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

- 923. Infection and Immunity. (3-2). Credit 4.** Prokaryotes, eukaryotes and viruses with respect to structure, physiology, nutrition, genetics, ecology and pathogenicity for the human host. Biological and biochemical mechanisms of the immune response to infectious agents. Prerequisite: Admission to medical curriculum or approval of department head.
- 924. Microbiology of Infectious Disease. (3-2). Credit 4.** Basic microbiological principles and phenomena in relation to clinical manifestations in the human host. Interactions between microbial parasite and infected host, organized along organ system divisions. Prerequisites: MMIM 923; MANA 911.
- 981. Seminar. (1-0). Credit 1.** Presentation by advanced students, faculty, and visiting scientists of reports on current research in microbiology and immunology. Prerequisite: Approval of department head.
- 985. Problems. Credit 1 or more.** Directed individual study of advanced topics in microbiology and immunology. Prerequisites: MMIM 923, 924 and approval of department head.
- 989. Special Topics in . . . Credit 1 to 4.** Selected topics in an advanced area of medical microbiology or immunology. Prerequisites: MMIM 923, 924 and approval of department head.
- 991. Research. Credit 1 or more.** Original laboratory investigation in specific areas of medical microbiology or immunology. Prerequisites: MMIM 923, 924 and approval of department head.

DEPARTMENT OF MEDICAL PHARMACOLOGY AND TOXICOLOGY (MPHM)

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

The Department of Medical Pharmacology and Toxicology prepares students for the clinical study of therapeutics by providing them with a basic knowledge of drugs and the manner in which drugs modify functions in the human body. The clinically important drugs are grouped into five major categories according to their therapeutic effects. These include autonomic agents, renal and cardiovascular

drugs, central nervous systems agents, endocrine preparations, and chemotherapeutic drugs. The mechanism of drug actions and the therapeutic usefulness of the drug in the treatment of diseases are stressed. Students are made aware that side effects of drugs involve organ systems at sites of action other than the primary one. This information is imparted through lectures, laboratory experiments, demonstrations, discussions, and term paper presentations.

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

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

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

924. Medical Pharmacology I. Credit 3. General concepts of drugs and poisons; pharmacokinetics, autonomic drugs, cardiovascular agents and renal pharmacology. Prerequisites: Admission to medical curriculum or MPH 901, 902; MANA 922; MBCH 911, 912.

925. Medical Pharmacology II. Credit 4. Continuation of MPH 924; neuropsychopharmacology, chemotherapy and toxicology. Prerequisite: MPH 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: MPH 924 and approval of department head.

989. Special Topics in . . . Credit 1 to 4. Selected topic in an advanced area of medical pharmacology. Prerequisites: MPH 924 and approval of department head.

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

DEPARTMENT OF MEDICAL PHYSIOLOGY (MPHY)

Professors A. H. Goodman, H. J. Granger (Head), E. E. Smith, W. E. Ward; **Associate Professor** T. V. Peterson; **Assistant Professors** W. M. Chilian, M. J. Davis, G. A. Meininger; **Assistant Research Scientists** B. A. Benjamin, R. E. Lewis, M. E. Schelling; **Postdoctoral Fellow** D. C. Zawieja; **Postdoctoral Research Associate** C. J. Meininger.

Physiology is the branch of science concerned with the physical and chemical bases of life processes. As a fundamental discipline in medicine, physiology emphasizes the integration and coordination of biological activities at the molecular, cellular, organ, system and organism levels. The normal functioning of the human body is dependent on the interplay of elegant control mechanisms operating at all

hierarchical levels of organization. In medical practice, the first sign of a disease is usually an abnormal body function. Moreover, amelioration of dysfunction requires detailed knowledge of the physicochemical processes and control mechanisms responsible for the normal and abnormal behavior of organisms.

The basic concepts of medical physiology are presented during the winter and spring terms of the first academic year. The first segment of the course emphasizes the principles of molecular and cell physiology; this is followed by a detailed exposition of the functions and interactions of the nervous, cardiovascular, renal, respiratory, digestive, endocrine and reproductive systems. Lectures, animal laboratories, demonstrations, field trips and clinical correlations are utilized to develop a complete picture of basic physiology and pathophysiology. Although the student is expected to develop a critical fund of physiologic facts, the course is designed to explore in depth the logic of the human body and its subsystems. The major focus of the course in medical physiology is on elucidating the behavior of the normal organism; however, selective examples of pathophysiology highlight each section of the course, thereby providing insight into the strong physiologic framework of modern medicine.

The research program of the department focuses on the cardiovascular system. Specific areas of research interest include: molecular and cell biology of vascular smooth muscle and endothelium, microcirculation, overall regulation of blood volume and arterial pressure, hypertension, inflammation, and the development of computer and engineering technology for cardiovascular research. The investigations of faculty members are supported by grants and awards from the National Institutes of Health and the American Heart Association. Opportunities for participation in the departmental research programs are available for students in high school, college, and medical school. In addition, the department is actively involved in graduate and postdoctoral training.

- 901. Medical Physiology I. (4-0). Credit 4.** Systems of the human body with special emphasis on relationships between systems. Clinical cases exhibiting alterations in physiological feedback control. Prerequisite: Admission to medical curriculum or approval of department head.
- 902. Medical Physiology II. (4-3). Credit 5.** Systems of the human body with emphasis on relationships between systems. Clinical cases exhibiting alterations in physiological feedback control. Laboratory experiences in human and mammalian systems. Prerequisites: MPHY 901 and admission to medical curriculum or approval of department head.
- 981. Seminar. (1-0). Credit 1.** Presentation by advanced students, faculty and visiting lecturers of reports on contemporary research in physiology. Prerequisite: Approval of department head.
- 985. Problems. Credit 1 or more.** Directed individual study of advanced topics in specialized areas of physiology. Prerequisites: MPHY 901, 902 and approval of department head.
- 989. Special Topics In . . . Credit 1 to 4.** Selected topics in an advanced area of medical physiology. Prerequisites: MPHY 901, 902 and approval of department head.
- 991. Research. Credit 1 or more.** Original investigation in specific areas of physiology. Prerequisites: MPHY 901, 902 and approval of department head.

MEDICINE-INTERDISCIPLINARY (MEID)

- 981. Seminar. (1-0). Credit 1.** Discussion of current developments and selected topics.
- 989. Special Topics In . . . Credit 1 to 4.** Special topics in an identified area of interdisciplinary medicine.

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY (OBY)

Professors D. P. Baker (Head), R. V. Cummings, B. L. Shull; **Clinical Professors** W. F. Baden, R. H. Benbow; **Associate Professors** R. H. Brakemeier, C. V. Capen, W. R. Gold, Jr., A. B. Knight, F. L. Leavelle, R. B. Nisbet; **Clinical Associate Professors** L. W. B. Rasberry, W. B. Roman, Jr.; **Assistant Professors** P. S. Greene, J. R. Meyer, J. F. Pliego, W. L. Rayburn, M. S. Rowe, C. W. Sanders, P. J. Sulak, T. J. Wincek; **Clinical Assistant Professors** C. R. Anderson, D. R. Doss, N. Z. Johnson, G. M. Montgomery, R. W. Smith.

The goal of the Department of Obstetrics and Gynecology is to expand students' basic science knowledge of reproductive medicine to provide an introduction to those aspects of obstetrics and gynecology that are pertinent to all physicians.

Curriculum objectives for the department include: 1) to develop an awareness and basic understanding of reproductive medicine including gynecologic disease and obstetrics; 2) to develop the skills of obtaining an obstetric-gynecologic history and of performing a physical examination with a proficient pelvic examination and Pap smear; 3) to develop the appropriate attitude and behavior to provide physical, emotional, and psychosexual care for women; 4) to develop the ability to recognize patients requiring specialized obstetric and gynecologic care; and, 5) to develop an awareness and inquisitiveness concerning obstetrics and gynecology upon which future knowledge can be added.

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

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

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

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

Fourth year elective externships are offered and are individually designed to meet the needs of each student.

The research interests of faculty members include: gynecologic-oncology, reproductive endocrinology, gynecologic-urology, and high-risk obstetrics.

- 921. Introduction to Obstetrics and Gynecology. Credit 3.** Principles of normal reproductive medicine; menstrual function, conception, sexual differentiation, fetal and maternal physiology, antepartum patient evaluation, intrapartum, and postpartum care. Prerequisite: Satisfactory completion of year 1 of the medical curriculum.
- 982. Core Clerkship in Obstetrics and Gynecology.** Clinical obstetrics and gynecology, emphasizing pathologic conditions, with patient evaluation on the in- and outpatient services under supervision of the clinical faculty. Participation in seminars, conferences and clinical rounds. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.
- 983. Elective Clerkship In . . . 4 weeks.** Elective clerkship in a specific area of obstetrics and gynecology. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.
- 985. Problems.** Directed study of selected problems in obstetrics and gynecology. Prerequisite: Approval of department head.
- 991. Research.** Original clinical and/or laboratory investigation in a specific area of obstetrics and gynecology. Prerequisite: Approval of department head.

DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE (MPAT)

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

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

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

General Pathology (host response to injury and introduction to clinical pathology) is taught in the fall term; Systemic Pathology (diseases of the organ systems) is taught in the winter and spring. The pathology courses serve as a bridge between the basic sciences and the clinical disciplines. Approximately half of instructional time is allotted to laboratory study.

General Pathology presents disease processes as manifestations of a common set of mechanisms of injury. Topics included are the normal and adapted cell, inflammation and repair, cell and tissue injury as a result of infectious agents, immunologic events, vascular lesions, genetic abnormalities, lesions caused by physical and chemical substances, and the causes and behavior of neoplasms. Pathologic changes are correlated with the resultant clinical manifestations, and in this framework, a foundation for understanding specific diseases is established.

This foundation facilitates the survey in Systemic Pathology of the principal disorders of each organ system, instruction in the clinical laboratory procedures necessary to diagnose these conditions, and the intelligent and cost-efficient use of laboratory tests in patient care. Weekly clinicopathological conferences are conducted by students during the winter and spring terms.

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

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

Research interests of department members include the study of sexually transmitted diseases, especially chlamydia, characterization of schistosomiasis and its causative agent, effect of mycotoxins on the immune system, identification and characterization of an antigen in carcinoma of the kidney, the interaction of insulin with the lens, the pathogenesis of hemolytic uremic syndrome, comparison of oncogene expression in human and canine osteosarcoma, glomerular permeability in experimental diabetic nephropathy, secretory IgA in canine gastrointestinal fluids, plasma exchange, gastrointestinal cancer, and hematologic disease.

- 923. Human Pathology I. Credit 4.** Language of disease, identification of morphological lesions in common diseases and relation of their causes and pathogenesis to resulting clinical manifestations. Basic laboratory skills. Prerequisite: Year 1 of medical curriculum or approval of department head.
- 924. Human Pathology II. Credit 4.** Human diseases, their causes, pathogenesis, lesions and resulting manifestations. Prerequisite: MPAT 923 or approval of department head.
- 925. Human Pathology III. Credit 4.** Continuation of MPAT 923 and 924. Prerequisite: MPAT 924.
- 981. Seminar. (1-0). Credit 1.** Pathology seminar presenting selected areas in depth. Prerequisite: Year 1 of the medical curriculum or approval of department head.
- 983. Elective Clerkship In . . . 4 weeks.** Elective clerkship in a specific area of pathology. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.
- 984. Selective Clerkship In . . . 2 or 4 weeks.** Selective clerkship in a specific area of pathology and laboratory medicine. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.
- 985. Problems in Pathology. Credit 1 or more.** Special problems in pathology. Prerequisite: Year 1 of the medical curriculum or approval of department head.
- 989. Special Topics In . . . Credit 1 to 4.** Special topics in advanced pathology. Prerequisite: Year 1 of the medical curriculum or approval of department head.
- 991. Research. Credit 1 or more.** The interest of the student and the supervising faculty member will determine the specific nature of the research. Prerequisites: Completion of years 1 and 2 of medical curriculum or approval of department head.
- 992. Clerkship. Credit 2 to 8.** Application of knowledge learned in MPAT 923, 924 and 925 in the hospital laboratory setting. Prerequisite: First two years of the medical curriculum.

DEPARTMENT OF PEDIATRICS (MPED)

Professors G. W. Brasher, W. S. Conkling, D. R. Krauss, H. B. Hahn, Jr., B. L. Koops (Head), N. G. Lawyer, C. D. Morehead, R. E. Myers; **Associate Professors** W. R. Allen, J. R. Asbury, D. E. Crisp, C. A. Daniel, J. F. Daniel, L. S. Frankel, B. G. Gold, P. D. Larsen, W. F. Meyers, C. E. Oltorf, W. A. Rae, J. Q. Thompson, Jr.; **Clinical Associate Professors** N. A. Harris, S. S. Skrovan; **Assistant Professors** L. M. Borsett-Kanter, S. K. Brandt, C. Cipriani, S. M. Dobin, D. R. Douty, T. B. Douty, D. M. Foster, B. A. T. Hagen, D. R. Hardy, N. B. Ingram, R. P. Jones, S. P. Nickel, T. K. Olson, B. R. Paull, A. I. Ross; **Clinical Assistant Professors** K. E. Matthews, R. H. Moore, J. W. Parr, A. S. Patel, K. H. Rollins, M. S. Sicilio; **Instructors** R. E. Burke, R. D. Davidson, M. P. Marquardt, D. G. Ransom.

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

The eight week pediatrics clerkship is offered throughout the third year and consists of four weeks in the hospital and four 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 forty hours of formal lectures. In the hospital and outpatient clinic, students are encouraged to evaluate their patients first and compare their findings with those of the staff. Each year, 55,000 outpatient visits and 4,250 inpatient days assure students and the 14 residents sufficient numbers and diversity of patients. Residents and students are supervised by 31 staff pediatricians and 4 child psychologists. More than a third of the pediatricians practice general pediatrics as well as a subspecialty.

Further experience in pediatrics is available from fourth year, four week electives: inpatient, neonatology, allergy, and pediatric intensive care.

- 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.** Clinical pediatrics under supervision of the clinical faculty through participation in routine and emergency inpatient (ward and nursery) and outpatient pediatric care. The student will perform patient evaluations, learn problem solving techniques, and participate in pediatric conferences, seminars and staff 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.
- 985. Problems.** Directed study of selected problems in pediatrics. Prerequisite: Approval of department head.
- 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. C. Rickard, R. R. Ryneerson (Head), D. H. Rosen; **Clinical Professors** R. J. Hudson, F. T. Rafferty; **Associate Professors** L. I. Androes, J. L. Bodden, G. R. Brooks, G. S. Chintapalli, R. K. Gaines, L. A. Gamino, F. A. Gruver, P. S. Hill, R. B. Nisbet, C. A. Pierce, W. A. Rae, W. L. Stewart; **Clinical Associate Professors** F. E. Gist, W. E. Lebeau; **Assistant Professors** R. A. Brandon, J. A. Cooney, G. L. Eisenhauer, G. R. Elkins, C. J. Fournier, P. B. Hicks, P. L. Hughes, R. B. Hunter, R. E. Krych, M. McCord, W. J. Meek, T. K. Olson, J. T. Parks, V. R. Polavarapu, M. D. Ramsey, K. B. Robbins, S. K. Strawn; **Instructors** L. J. Goza, S. S. Huber.

The Department of Psychiatry and Behavioral Science has as its educational objectives teaching the psychological dimensions of the human life cycle, the psychological determinants of the doctor-patient relationship, and basic familiarity with psychiatric diseases, as well as providing formative feedback to students on their interviewing skills.

The first year course, *Working with Patients*, in the spring term is taught in a series of semiweekly lectures that deal with basic psychological concepts, the psychological aspects of the human life cycle, psychological aspects of the doctor-patient relationship and an introduction to some of the theoretical views that have been developed to understand mental functioning. The second year course, *Introduction to Clinical Psychiatry*, uses biweekly lectures to cover descriptively the major psychiatric disorders and their treatments. The third year eight week clinical psychiatry clerkship is divided between traditional inpatient settings and patients in other clinical services for whom a psychiatric consultation has been requested. In addition, students spend two weeks on the Scott and White Alcohol and Drug Dependence Treatment Unit where they assist in the evaluation and treatment of chemically dependent patients. Also included in the third year clerkship is a sub-course in interviewing skills. Didactic instruction in interviewing is combined with critiques of videotaped interviews with current psychiatric patients. A series of clinically oriented lectures are given on several days of the week throughout the third year psychiatry clerkship.

Electives offered during the fourth year include: *Clinical Psychiatry in an Institutional Setting*, *Group Psychotherapy*, *Psychometric Testing in Medical Practice*, and *Psychology of Rehabilitation Medicine and Chronic Illness*.

Among the research projects pursued by faculty members within the department are investigations into: the effects of electroconvulsive treatment on animals under treatment with MAOI drugs; development of a clinical scale to identify alcoholics in a general medical population; treatment of bulimia patients with tricyclic antidepressants; the alcohol recovery training unit; identification of psychogenic factors in chronic pain patients; psychometric assessment and abbreviation for improved readability of the short form of the MMPI; psychosocial impact of play on hospitalized latency-aged children; and analysis of measured personality characteristics of chronic low back pain patients and multiple pain patients.

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

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

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

- 943. Introduction to Clinical Psychiatry III. Credit 1.** Continuation of MPSY 942. Prerequisite: MPSY 942.
- 981. Seminar. (1-0). Credit 1.** Seminars in areas related to psychiatry. Prerequisite: Three semesters in psychiatry.
- 982. Core Clerkship in Psychiatry.** Clinical psychiatry, with patient evaluation on the in- and outpatient services under supervision of the clinical faculty, participation in seminars, conferences, hospital and emergency room consultations, and in psychologic and psychometric evaluations. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.
- 983. Elective Clerkship In . . . 4 weeks.** Elective clerkship in a special area of psychiatry. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.
- 985. Problems. Credit 1 or more.** Special problems in psychiatry. Prerequisite: Approval of department head.
- 989. Special Topics In . . . Credit 1 to 4.** Special topics in an identified area of psychiatry. Prerequisite: Approval of department head.
- 991. Research. Credit 1 or more.** Research projects in the field of psychiatry. Prerequisite: Approval of department head.

DEPARTMENT OF RADIOLOGY (MRAD)

Professors J. L. Montgomery (Head), J. C. Moore; **Associate Professors** J. F. Bergstrom, E. B. Best, Sr., P. D. Bourland, L. Canales, W. R. Carpentier, A. Y. C. Cheung, J. T. Davis, L. H. Deiterman, Jr., M. G. Dunne, J. P. Eberts, T. Hopens, P. M. Kroening, R. F. Kuhnhein, B. J. G. McConnell, F. C. Petty, E. J. Schoolar, Jr., O. D. Skinner, J. M. Stoebner, A. K. Teaford; **Clinical Associate Professors** G. F. Brossmann, E. A. Elmendorf; **Assistant Professors** L. G. Naul III, G. J. Peet, J. J. Pliego, K. J. Ratajczak, E. W. Robbins, R. S. Shah; **Clinical Assistant Professor** G. C. McCord.

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

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

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

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

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

- 931. Principles of Radiology. 18 clock hours.** Methods of medical imaging; conventional radiology, ultrasound, computerized tomography and nuclear radiology, and application of these methods to specific clinical problems. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.
- 983. Elective Clerkship In . . . 4 weeks.** Elective clerkship in a specific area of radiology. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.
- 984. Selective Clerkship In . . . 2 weeks.** Selective clerkship in a specific area of radiology. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.
- 985. Problems.** Directed study of selected problems in radiology. Prerequisite: Approval of department head.

DEPARTMENT OF SURGERY (SURG)

Professors E. W. Ahlgren, H. H. Brindley, Sr., C. W. Broders, A. K. Brown, Jr., R. D. Cunningham, L. G. Druipple, W. R. Engvall, E. H. Flewellen III, R. H. Hayward (Head), G. T. Keegan, R. C. Klugo, F. L. Korompai, D. J. Lynch, D. E. Pisar, J. W. Roberts, T. Ruff, E. W. Stark, D. E. Waugh, R. R. White IV; **Professor Emeritus** G. V. Brindley, Jr.; **Clinical Professors** F. G. Anderson, Jr., W. M. Cocke, Jr., R. H. Harrison III; **Associate Professors** L. W. Adams, G. W. Allen, F. R. Arko, D. A. Barnett, E. E. Bellens, G. O. Brindley, R. G. Carlson, K. S. Coffield, J. P. Dieckert, J. D. Fisher, W. G. Frick, D. R. Haywood, H. A. T. Hein, J. C. Hendricks, V. M. Hermsen, C. F. Johnson III, O. E. Kitchings III, W. L. Knight, K. R. Lecocq, A. Lenis, W. E. Lowry, Jr., F. S. O'Rourke, T. E. Runyan, M. R. Smigiel, Jr., S. K. Snyder, R. E. Symmonds, Jr., C. B. Tate, Jr., A. R. Tormey, Jr., C. N. Verheyden, A. H. Wahlen; **Clinical Associate Professors** F. G. Anderson, L. W. Coleman, Jr.; **Assistant Professors** R. F. Baugh, J. D. Bean, H. Birkholz, D. L. Boysen, S. K. Brandt, G. W. Brindley, H. H. Brindley, Jr., C. S. C. Chang, M. R. Coffman, R. J. Dunlop, A. C. Farrow-Gillespie, J. R. Gibson, Jr., F. J. Gillette, Jr., W. P. Goforth, P. C. Grothaus, J. T. Havalda, M. R. Hermans, R. F. Hines, G. H. Horsfall, Y. P. Hsieh, A. Jew, C. F. Kallina, S. L. Kanter, J. L. Kethley, Jr., L. Koegel, Jr., T. K. Matthews III, A. J. McDavid, V. A. Mehta, S. A. Meuse, M. J. Miller, G. H. Morton, S. A. Norris, P. P. Pandya, D. D. Peterson, B. L. M. Pollock, R. L. Riess, P. B. Ryan, E. O. Singh, R. W. Smith, D. J. Taylor, F. D. Todd II, C. A. Venus, M. R. Warner, C. D. Weeks; **Clinical Assistant Professors** D. E. Beesinger, H. E. Bohne, J. W. Ditzler, Jr., J. B. Giles, J. B. Glenn, Jr., T. B. Gorden, G. L. Hemphill, M. D. Kattner, M. B. Lindsay, W. H. Marr, M. F. McMahon, M. B. Riley, N. D. Shipman, D. M. Stauch, A. K. Young, R. R. Young, Jr.; **Instructors** H. G. Beaver, A. G. Lueck, T. H. McCollum, V. H. Salzman, K. A. Thorpe, F. N. Wardell.

The required third year clerkship taught by the Department of Surgery is designed to expose students to the basic principles of surgery, not to surgical techniques. Students are instructed in some techniques used in minor surgery. Major emphasis is given to the principles of wound healing, fluid and electrolyte balance, the introduction to specific surgical diseases, organ trauma, inflammatory responses and malignancy. Ward rounds and assignment of patients to students offers an opportunity for preoperative evaluation and the acquisition of sound surgical judgment. Daily surgical lectures, semiweekly subspecialty seminars, and surgical grand rounds provide students the opportunity to enhance their abilities. Participation in the operating room, postoperative management and case presentations help to complete the total surgical experience and provide continuity of care.

The fourth year elective and selective program allows further experience in the Divisions of Anesthesiology, General Surgery, Ophthalmology, Orthopedic Surgery, Otolaryngology, Plastic Surgery, Urology, Thoracic, and Cardiovascular Surgery. Students may also participate in patient management in the Pain Clinic.

Student participation in any ongoing research program is welcome.

- 982. Core Clerkship in Surgery.** Clinical surgery, with workup of patients and participation with the clinical faculty in preoperative evaluation, operative procedure and postoperative care. Participation in clinical rounds, conferences, emergency room and formal classroom activity. Prerequisite: Satisfactory completion of year 2 of the medical curriculum.
- 983. Elective Clerkship In . . . 4 weeks.** Elective clerkship in a specific area of surgery. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.
- 984. Selective Clerkship In . . . 2 or 4 weeks.** Selective clerkship in a specific area of surgery. Prerequisite: Satisfactory completion of year 3 of the medical curriculum.
- 985. Problems.** Directed study of selected problems in surgery. Prerequisite: Approval of department head.
- 987. Advanced Cardiac Life Support. Credit 1.** Diagnosis and treatment of acute cardiac emergencies in infants, children and adults. Prerequisite: Completion of years 1, 2 and 3 of the medical curriculum.
- 991. Research.** Original clinical and/or laboratory investigation in a specific area of surgery. Prerequisite: Approval of department head.

RESEARCH INSTITUTES

Microcirculation Research Institute

Director: H. J. Granger

The mission of the Microcirculation Research Institute is to foster investigations of microscopic blood vessels, the extracellular matrix and lymphatics. Scientists from the Colleges of Medicine, Engineering, Science, and Veterinary Medicine have contributed to the research and training programs of the institute. Regular communications between investigators is facilitated by the biweekly Microcirculation Research Forum.

The research interests of institute scientists range from molecular and cell biology to systems physiology and engineering sciences. A major thrust is elucidating the cellular basis of function and dysfunction of vascular smooth muscle and endothelium, the basic building blocks of microscopic blood vessels. At the single microvessel and microvascular network levels of organization, the processes involved in control of blood flow and exchange of material between blood and tissues are under investigation. A variety of technologies are utilized to probe the normal and abnormal behavior of the microcirculation including electron microscopy, tissue culture, immunochemistry, cytochemistry, histochemistry, quantitative intravital microscopy, computer simulation, and digital analysis of video images. These techniques are being applied to studies of normal microcirculatory dynamics in tissues such as heart, brain, intestine, liver, skin, muscle and retina. Applied research focuses on the involvement of the microvasculature in myocardial infarction, stroke, hypertension and inflammation. In addition, a research and development program in bioinstrumentation and computer science has evolved to facilitate quantification of a variety of microcirculatory variables and processes.

The research programs of the institute are supported by grants and awards from the National Institutes of Health and the American Heart Association. Graduate assistantships and postdoctoral fellowships are available to support individuals committed to microcirculatory science as a career. In addition, the institute sponsors the participation in its research programs of students in high school, college, and medical school.

Institute of Ocular Pharmacology

Director: G. C. Y. Chiou

The Institute of Ocular Pharmacology conducts research on drugs to treat diseases of the eye. Scientists in the institute are currently investigating pharmacological treatments for glaucoma; ocular inflammation; and retinal, choroidal and corneal diseases.

The institute publishes the *Journal of Ocular Pharmacology*. It also promotes research in ocular pharmacology and disseminates its research findings through sponsorship of seminars and symposia.

Research in the institute receives funding from the National Institutes of Health, the National Eye Institute, the American Heart Association-Texas Affiliate, U. S. Army Medical R&D Command, and private drug firms. The institute supports the participation of college students, medical students, and graduate students in its research programs.

Institute of Molecular Pathogenesis and Therapeutics

Codirectors: S. H. Black, G. C. Y. Chiou, G. M. Ihler.

The goal of the Institute of Molecular Pathogenesis and Therapeutics is to conduct basic research into the origins and causes of disease at the molecular level and to apply this research to find improved therapeutic measures to prevent, ameliorate, or cure specific illnesses. The institute is an interdisciplinary organization with members from the Departments of Medical Biochemistry and Medical Genetics, Medical Microbiology and Immunology, and Medical Pharmacology and Toxicology. Current research undertaken by investigators within the institute includes studies on: 1) the uses of erythrocytes and liposomes as DNA delivery vehicles; 2) the etiology of glaucoma and myasthenia gravis; 3) GABAergic involvement in alcoholism and its withdrawal; 4) detoxification of cyanide and insecticide poisoning at the molecular level; 5) central nervous system involvement of aging; 6) the genetics and biochemistry of plasmid transfer; 7) nutrition and host defense mechanisms; 8) functions of viral gene products; and 9) an *ex vivo* culture system for assessing the activity of chemotherapeutic agents against tumor cells.

Research in the institute receives its primary funding from the National Institutes of Health. The institute sponsors a student research and training program. It uses grant funds to support the participation of high school students, undergraduates, medical students, and graduate students in its research programs.

Center for the Study of Cell Surfaces

Director: G. M. Ihler

The Center for the Study of Cell Surfaces was formed in 1985 to coordinate personnel, facilities, and equipment at the College of Medicine for both basic and clinical research on: 1) the structure and properties of the cell surface and its proteins, 2) the isolation of genes concerned with cell surface properties, 3) the sequencing of DNA and nucleic acid analysis, 4) the isolation of immunogenic proteins for which protective antibodies offer the hope of disease prevention in human and veterinary medicine, and 5) the use of erythrocytes and liposomes as drug carriers.

The center utilizes a multidisciplinary approach to its research, combining the expertise and resources of the Departments of Medical Biochemistry and Medical Genetics, Medical Microbiology and Immunology, and Pathology and Laboratory Medicine. It has also signed a reciprocal agreement with the Centre de Biophysique Moleculaire in Orleans, France, to facilitate exchanges of personnel, information, and research materials.

Facilities available for use by researchers in the center include the Laboratory for Cloning and Gene Transfer, the Laboratory for Electron Microscopic Analysis of Cell Membranes, and a fluorescence-activated cell sorter. In addition, researchers have access to materials from the Tissue Culture Laboratory at Scott and White, which maintains the third largest collection of tumor cell lines in the world.

Research programs at the center are supported by grants from the National Institutes of Health, the State of Texas Advanced Technology Research Program, and the American Cancer Society. Graduate assistantships and postdoctoral fellowships are available to support individuals who wish to pursue research on cell surfaces. In addition, the center sponsors student participation in its research programs.

Center for Health Systems and Technology

Director: R. S. Stone

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

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

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



STUDENTS

PRESENT STUDENTS

Class of 1988

Name, Home City, and Degrees

- Appleton, Margaret Page;** Commerce. Texas A&M University, No Degree.
- Baird, Cynthia Marlo;** Houston. B.A., Mid-America Nazarene College, 1981.
- Barhorst, Mark Donald;** Houston. B.S., University of Texas-Arlington, 1983.
- Boling, Michael Jay;** Farwell. B.A., Baylor University, 1984.
- Bonds, James Vaull, Jr.;** Houston. B.S., Baylor University, 1983.
- Campbell, James Edward;** Abilene. B.S., Abilene Christian University, 1970.
- Cardus, Bettina Isabel;** Houston. B.A., Rice University, 1984.
- Castro, Juan Francisco;** Brownsville. B.S., University of Texas, 1984.
- Clark, Gayln Von;** Ennis. B.A., Baylor University, 1984.
- Dela Cruz, Teddy Villegas;** Virginia Beach, Virginia. B.S., Texas A&M University, 1984.
- Dockendorf, Brian Lee;** Palestine. Texas A&M University, No Degree.
- Epps, Lisa Renee;** Houston. B.S., Texas A&M University, 1980.
- Forest, Donald Alan;** Redford, Michigan. B.S., Michigan State, 1977; B.S., Baylor College of Medicine, 1981.
- Fuller, Linda Jean;** Youngstown, Ohio. B.A., Park College, 1979.
- Gardner, Jed Raden;** Denver, Colorado. B.S., Brigham Young University, 1982.
- Harris, W. Kirk;** Houston. Texas A&M University, No Degree.
- Huddleston, Kevin Paul;** Hearne. B.A., Abilene Christian University, 1984.
- Iglesia, Kim Angel;** Houston. B.S.C.E., Texas A&M University, 1982.
- Janecek, Stephen Ervin;** Victoria. B.S., Texas A&M University, 1984.
- Jennings, Norman Larue;** Carthage. B.S. Stephen F. Austin University, 1984.
- Joe, John Christopher;** Baytown. Rice University, No Degree.
- Johnston, Caroline Singletary;** Groves. B.S., Texas A&M University, 1984.
- Khoury, Ada Celeste;** Houston. Texas A&M University, No Degree.
- Kirven, Felix Moses;** Coolidge. Prairie View A&M University, No Degree.
- Kotrla, Kathryn Jo;** Taylor. B.A., Rice University, 1980; M.S., Stanford University, 1984.
- Laughlin, Misty Dawn;** Houston. B.A., Rice University, 1984.
- Mack, Chriss Anthony;** Baker, Oregon. B.S., Oregon State University, 1984.
- McNeill, Thomas Lee;** Arlington. Texas A&M University, No Degree.
- Medford, Rex Eugene;** Denver, Colorado. B.S., Texas Christian University, 1983.
- Mott, Frank Edmund;** College Station. B.S., University of Texas, 1980.
- Neal, Gregory Scott;** San Antonio. B.A., Texas A&M University, 1982; M.S., Texas A&M University, 1984.

O'Connell, Leslie Ann; Austin. B.A., University of Texas, 1983.
Ogdee, Robert George; San Benito. B.S., Texas A&M University, 1984.
Owen, Kaye Kip; Pleasanton. B.S., U.S. Naval Academy, 1975.
Patrick, Stephen Kyle; Irving. Texas A&M University, No Degree.
Pickett, Kathryn Ann; Houston. Texas A&M University, No Degree.
Presnal, Bradley Paul; Bryan. B.S., Texas A&M University, 1984.
Roblnson, Richard Dane; Houston. B.S., Texas A&M University, 1984.
Rose, Melanie Yarbrough; Marlin. B.S., Baylor University, 1975; Ph.D., Rice University, 1982.
Rose, Verna Morris; Dumas. B.S., University of Texas-Arlington, 1977; M.S., University of Texas-Arlington, 1984.
Safford, Susan Kay; Midland. B.A.S., Stanford University, 1980.
Shin, Peter Bachel; Dallas. B.S., Seoul National University, 1975.
Smythe, William Roy; Belton. Baylor University, No Degree.
Townsend, John S., IV; Merkel. Angelo State University, No Degree.
Tucker, Judy Carolyn; Midland. B.A., Eastern New Mexico University, 1975; M.A., Eastern New Mexico University, 1976.
Tucker, Myrna Blanca; San Antonio. B.S., University of Texas-San Antonio, 1984.
Villarreal, Marcelo; Eagle Pass. Texas A&M University, No Degree.
Weber, Robert Alan, Jr., Cleveland, Ohio. B.S.E., University of Pennsylvania, 1984.
Werch, Shella Joy; Washington, Pennsylvania. B.A., Wellesley College, 1984.
Wheeler, Robert Alan; Dayton, Ohio. B.A., Miami University (Ohio), 1980.
Wikoff, Catherine Lynnette; Denton. B.S., Texas Woman's University, 1977.
Zakala, Marina Lisa; Jackson, Michigan. B.A., Brown University, 1984.

Class of 1989

Name, Home City, and Degrees

Alo, Kenneth Mark; Houston. B.S., University of Houston, 1985.
Bell, Theresa Ann; West. B.S., University of Texas Health Sciences Center in Dallas, 1979.
Borrell, Charles Avery; Temple. Texas A&M University, No Degree.
Brawley, Elizabeth Rose; Dallas, B.A., Texas A&M University, 1985.
Burns, Bruce Elliott; Concord, CA. University of California, No Degree.
Bush, Stacie Leigh; Paris. B.S., University of Texas, 1985.
Bywaters, Daniel Wilson; Houston. B.S., Texas A&M University, 1982.
Campbell, Joel Mark; Dallas. B.A., Baylor University, 1979; M.B.A., Baylor University, 1981.
Chen, Aeneld Liang-Jiu; Houston. B.S., Catholic University, Taiwan, 1969; M.S., Emporia State University, 1977.
Childers, David Omer; Houston. B.A., University of Notre Dame, 1979.
Childs, Ed Warren; Plano. University of Texas at Dallas, No Degree.
Clark, Michael Scott; Irvine. B.A., Pomona College, 1983.
Cline, Camala Cay; Arlington. Texas A&M University, No Degree.
Collins, Darryl DeWitt; Colleyville. B.S., University of Texas at Arlington, 1985.
Copenhaver, Steven Craig; Scottsbluff, NE. B.S., Sterling College, 1984.
Crane, Stuart Douglas; Plano. B.S., University of Texas, 1984.

Flyer, Mark Alan; Dallas. B.A., Columbia University, 1984.
Galan, Henry Louis; San Antonio. B.A., University of Texas, 1985.
Goldman, Michele Angela; San Antonio. B.S., Texas A&M University, 1985.
Gonzales, Joseph Manuel; Houston. B.S., Texas A&M University at Prairie View, 1985.
Grimes, Clarice Leavon; Hughes Springs. B.S., Texas Woman's University, 1980.
Grun, Tanya Renee; Tuscola. B.S., Angelo State University, 1984.
Hansard, Lisa Joy; Lubbock. B.A., Texas A&M University, 1985.
Hensel, Allison Suzanne; Arlington. B.S., Texas A&M University, 1985.
Johnson, Karen Ann; Dallas. B.S., 1982, M.S., Texas A&M University, 1984.
Johnson, Patrick Randolph; Cedar Hill. B.S., University of Texas, 1985.
Kerber, Caroline Ann; Bryan. B.S., Texas A&M University, 1984.
Martin, Ronald Jay; Houston. B.A., Trinity University, 1980.
Middleton, Michael Lance; Austin. B.S., Southwestern University, 1985.
Monroe, Mark Haskell; El Paso, Texas A&M University, No Degree.
O'Brien, Jeana Gail; Caldwell. B.S., Texas A&M University, 1984.
Peabody, Brenda Kay; College Station. B.S., Texas A&M University, 1983.
Pierce, Karl Randolph; Houston. B.S., University of Mary Hardin Baylor, 1984.
Pinkston, David Randall; Houston. B.S., Texas A&M University, 1978.
Pruitt, Tad Christopher; Abilene. Texas A&M University, No Degree.
Richardson, Mark Wayne; San Angelo. Texas A&M University, No Degree.
Riedel, David Charles; College Station. B.A., Trinity University, 1972.
Rodriguez, Rene; Elsa. B.S., Texas A&M University, 1985.
Sames, Thomas August; Eagle Pass. B.S., Texas A&M University, 1985.
Schmidt, Timothy James; Longview. B.S., Texas A&M University, 1985.
Schneider, David Lynn; Needville. B.S., Texas A&M University, 1983.
Sinha, Anil Kumar; Houston. B.A., Texas A&M University, 1984.
Slissom, Bert Waddell; Irving. B.A., Southwestern University, 1984.
Stoufflet, Paul Eric; Houston. B.S., Rice University, 1985.
Vance, Karen Kendall; Bryan. Texas A&M University, No Degree.
Williams, John Robert, Jr.; Jasper. B.S., Baylor University, 1983.
Wright, Libbyette Elaine; Rosenberg. B.S., Texas A&M University at Prairie View, 1985.
Wuthrich, Paul William; Deer Park. Texas A&M University, No Degree.

Class of 1990

Name, Home City, and Degrees

Aboukhair, Nabil Khalil; Mansourieh, Lebanon. B.S., Howard Payne University, 1982; M.S., Texas A&M University, 1984.
Atkinson, Denis Stuart, Jr.; Ft Worth. B.S., Texas Christian University, 1986.
Barker, Robert Neal; El Paso. B.S., University of Texas at El Paso, 1985.
Bennett, Lola Ann; San Angelo. B.S., Angelo State University, 1986.
Best, Susan Elizabeth; College Station. A.B., Sweet Briar College, 1975; M.S., Massachusetts Institute of Technology, 1979; Ph.D., Massachusetts Institute of Technology, 1985.
Bravo, Francisco Efrain; McAllen. A.A.S., Texas Southmost College, 1985.

Burleson, Dale Dudley, Jr.; Richardson. B.A., University of Texas at Austin, 1986.
Campbell, Joel Mark; Marlin. B.A., Baylor University, 1979; M.B.A., Baylor University, 1981.
Chalki, Harl P.; Temple. B.S., Texas A&M University, 1984.
Chang, Phyllis Clara; Houston. B.A., Rice University, 1986.
Coates, Greig Weber; Castroville. B.A., Austin College, 1986.
Cohen, Michael Keith; Beaumont. B.S., Texas A&M University, 1985.
Davis, Terri Lyn; Giddings. B.S., Texas A&M University, 1984.
Durica, Jon Mark; Fairfield. B.A., University of Connecticut, 1985.
Eckert, Rebecca Sharon; Castroville. B.S., Baylor University, 1984.
Edwards, Jonathan Duane; Somerville. B.A., Texas A&M University, 1986.
Eller, Richard Frank; Plano. B.A., Baylor University, 1983; M.S., Texas A&M University, 1986.
Esparza, Ezequiel Teran; Brownsville. B.A., University at Austin, 1985.
Frost, Jami Dalene; Houston. B.A., University of California, 1985.
Grossmith, John Paul; Converse. B.S., Embry Riddle University, 1976.
Hart, Stephen Forrest; Friendswood. B.A., University of Texas at Austin, 1981.
Jefferson, Henry Charles; Columbus, Ohio. B.S., University of Texas at San Antonio, 1986.
Jernigan, Floyd EdsII; Hurst. B.A., University of Texas at Arlington, 1982.
Johnson, Mark Alan; Houston. B.S., Northwest State University of Louisiana, 1985.
Lacy, Timothy Jerome; Nacogdoches. B.S., Stephen F. Austin, 1984.
Lancaster, Brent Alan; Winters. B.S., Texas A&M University, 1986.
Latham, Paige; Amarillo. B.A., Austin College, 1986.
Layton, Ernest Gaston, Jr.; Houston. Texas A&M University, No Degree.
Loftis, Laura Lynn; Dallas. B.A., University of Texas at Austin, 1986.
Lowe, Darla Gaye; Garland. B.S., University of Texas at Austin, 1981.
McClain, Lanna Brooke; Odessa. B.S., Texas A&M University, 1986.
McDonough, Michelle Denise; San Antonio. B.S., Texas A&M University, 1983.
Mohney, Brian Glenn; Austin. B.A., University of Arizona, 1983.
Nicholson, John Charles; Houston. B.A., Baylor University, 1986.
Richards, Terri Ann; Houston. B.S., Texas A&M University, 1986.
Rivero, Mary Helen; San Antonio. B.A., University of Texas at Austin, 1975.
Rosa, Robert Harold; San Antonio. B.S., Texas A&M University, 1986.
Sees, David Wayne; San Antonio. B.S., University of Texas Medical Branch in Galveston, 1982.
Shirey, Cleve Royce; Houston. B.S., Baylor University, 1985.
Sinha, Anil Kumar; Houston. B.S., Texas A&M University, 1984.
Slaughter, Ronald William; Clear Lake. Texas A&M University, No Degree.
Taylor, Lisa Carole; Dallas. B.B.A., University of Houston, 1983.
Tomac, Tracy Ann; Richardson. B.S., Texas A&M University, 1986.
Vastline, Victoria Lee; Austin. B.S., Texas A&M University, 1985.
Walker, Kim Lorraine; Houston. B.S., Texas A&M University, 1979; M.S., Texas A&M University, 1984.

Walthall, Ellen Deloy Brown; Midland. B.S., Texas Tech University, 1986; M.S., Texas Tech University, 1982.

Wang, Jeffrey Sze-Chung; Houston. B.S., Southwestern University, 1986.

Wauters, Ronald John; Houston. University of Houston, No Degree.

Wright, Libbyette Elaine; Rosenberg. B.S., Prairie View A&M University, 1985.

Class of 1991

Name, Home City, and Degrees

Abramelt, Warren Allen; Victoria. B.S., Texas A&M University, 1987.

Aitken, Alexander Tolford; Richardson. Texas A&M University, No Degree.

Baker, John Scott; Abilene. Baylor, No Degree.

Bauer, Jill Alden; Wimberly. B.A., Barnard College, 1980; M.I.A., Columbia, 1983.

Bivona, Melanie Michelle; San Marcos. B.S., Southwest Texas State University, 1987.

Boring III, George Wallace; College Station. B.A., Texas A&M University, 1986.

Bule, Charlise Ann; Spring. B.S., Baylor University, 1985; M.S., Baylor University, 1987.

Chen, Phillip Yun; College Station. B.A., University of Pennsylvania, 1986.

Creager, Ann Hill; Ft. Worth. B.S., Texas A&M University, 1987.

Crockett, Dale Ray; Dale City. B.S., Texas A&M University, 1987.

Davis, James Donald; Arlington. University of Texas at Arlington, No Degree.

Frazier, Ronald Kelth; Texarkana. B.S., Stephen F. Austin, 1979.

Freeman, Frederick Manuel; Raywood. B.S., Prairie View A&M University, 1985.

Frye, Shelly Denise; Dimmitt. B.A., Texas A&M University, 1987.

Gadberry, Walter Leslie; Follett. B.S., Texas A&M University, 1981; M.S., Texas A&M University, 1986.

Greller, Janet Michelle Conway; Austin. B.A., University of Texas at Austin, 1987.

Herrera, Larry; Jourdanon. University of Texas at San Antonio, No Degree.

Hoermann, Matthew James; Hillsboro. B.S., Texas A&M University, 1987.

Humphreys, Rance William; Jacksonville. Texas A&M University, No Degree.

Iddins, Bart O.; Austin. D.V.M., University of Tennessee, 1982.

Izumli, Akihiro; Houston. B.S., Kinki University, 1978; Ph.D., Rice University, 1986.

Jamroz, Lisa Dian; Temple. B.A., University of Texas at Austin, 1987.

Kalantar, Julie Alma; Dallas. B.S., Dallas Baptist College, 1984.

LI, Kin Wah; Houston. B.A., University of Hong Kong, 1978; M.Arch., Texas A&M University, 1984.

Lopez, Joseph Anthony; Brownsville. B.S., Pan American University, 1987.

Mathews, Pamela Ann; Austin. B.S., University of Texas at Austin, 1985.

Maxwell, John Andrew; Houston. B.S., Texas A&M University, 1984.

Moczygemba, Roger Michael; San Antonio. B.S., Texas A&M University, 1984.

Moellenhoff, Michael Eric; Cleburne. Texas A&M University, No Degree.

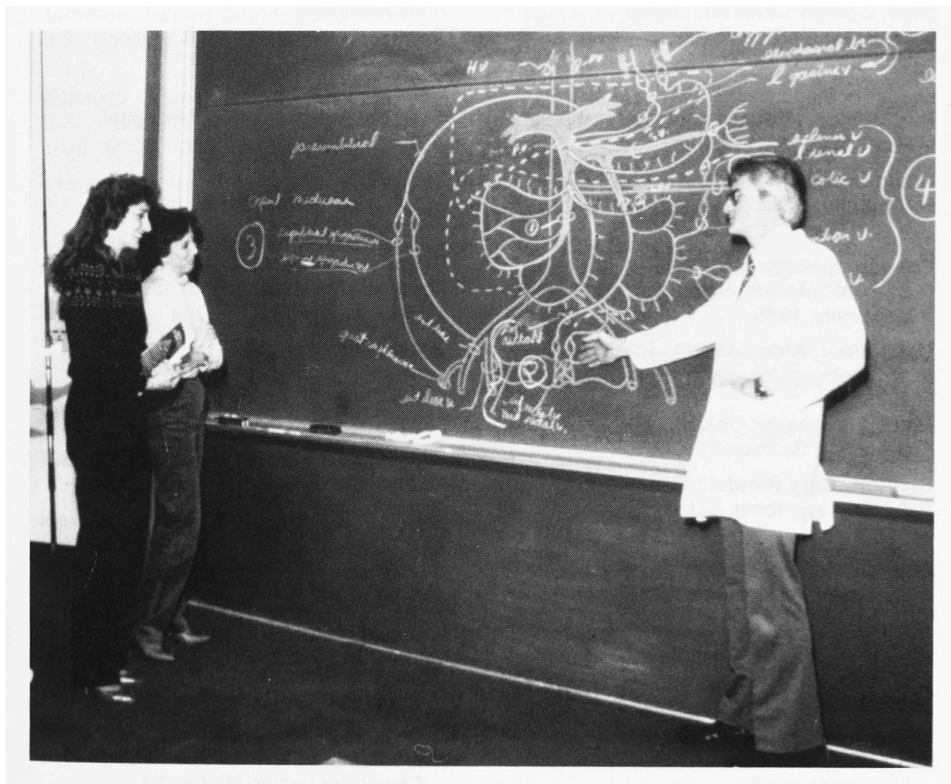
Montemayor, P. Christline; Spring. B.A., Texas A&M University, 1987.

Morgan, Allison E. Moore; Bryan. Texas A&M University, No Degree.

Nelson, Laurence Merl; Lubbock. B.S., Idaho State, 1984.

Oista, Susan Ann; Huntsville. Texas A&M University, No Degree.

- Overley, Scott Howard**; San Antonio. A.S., San Antonio College, 1985.
- Phillips, Claudia Anne**; Conroe. B.S., Stephen F. Austin, 1984.
- Priest, Kenneth Dale**; Eules. Texas A&M University, No Degree.
- Raabe, Todd Martin**; Conroe. Texas A&M University, No Degree.
- Rahm, Ashley Lynn**; Temple. Texas A&M University, No Degree.
- Razi, Saba**; Kanpur, India. B.S., University of Texas at Arlington, 1987.
- Russell, Dena Gall**; San Antonio. B.S., Trinity University, 1987.
- Samaan, Jane Susan**; Houston. B.S., Texas A&M University, 1987.
- Steelman, Joel Wayne**; Bryan. B.S., Texas A&M University, 1986.
- Talleh, Lella**; Houston. B.S., University of Houston, 1985.
- Thompson, Gwendell**; Ft. Worth. B.S., Texas Woman's University, 1985; M.S., Texas Woman's University, 1987.
- Tran, Connie Khanh Vu Lan**; Houston. B.S., Houston Baptist University, 1987.
- Ulisse, Michael John**; College Station. Texas A&M University, No Degree.
- Williams, Bradford Jay**; San Antonio. B.S., Texas A&M University, 1986.
- Willis, Kimberly Anne**; B.S., Texas A&M University, 1987.
- Windisch, Thomas Richard**; B.S., Johns Hopkins University, 1984.
- Young, Debbie Lynn**; Austin. B.S., Texas Lutheran College, 1984; M.S., Texas A&M University, 1987.



FORMER STUDENTS AWARDED THE M.D. DEGREE

*Indicates students who graduated "With Honors"

Class of 1987

Name, Home City, and Degrees—	Residency Appointment
Alling, Jefferson Bennett; Possum Kingdom Lake B.S., Basic Medical Sciences, Texas A&M University, 1985	Family Practice University of Oklahoma Health Science Center; Oklahoma City, Oklahoma
Andrews, Lawrence Wyn; Lake Jackson University of Houston, No Degree	Family Practice Memorial Medical Center; Corpus Christi, Texas
Andrus, Candye Renee; Austin B.A., Biology, University of Texas at Austin, 1981 M.A., Microbiology, University of Texas at Austin, 1983	Pediatrics University of Wisconsin; Madison, Wisconsin
*Ayers, Melanie Ann; Copperas Cove B.S., Basic Medical Sciences, Texas A&M University, 1985	Obstetrics/Gynecology Scott and White Memorial Hospital; Temple, Texas
Binderman, Judith Ellen; Houston B.S., Material Science Engineering, Cornell University, 1983	
Blair, Donald Lavester; Dallas B.S., Basic Medical Sciences, Texas A&M University, 1985	Anesthesiology Tulane University Hospital; New Orleans, Louisiana
Bledsoe, Maya Badachhape; Houston B.A., Biology, Sociology, Behavioral Science, Rice University, 1981	Internal Medicine Scott and White Memorial Hospital; Temple, Texas
Buckner, Susan Harris; University City B.S., Biology, Baylor University, 1982	Pediatrics Scott and White Memorial Hospital; Temple, Texas
Caballero, Hugo Alberto; Laredo B.S., Basic Medical Sciences, Texas A&M University, 1985	Surgery Marshall University School of Medicine; Huntington, West Virginia
Castiglioni, Aldo Joseph, Jr.; Galveston B.A., Zoology, University of Texas at Austin, 1975 Ph.D., Physiology, University of Texas Medical Branch at Galveston, 1980	Psychiatry University of Texas at San Antonio; San Antonio, Texas
Clayton, Gary Randall; Beaumont B.S., Zoology, Texas A&M University, 1978	Family Practice Medical College of Virginia; Richmond, Virginia
*Davda, Rajesh Kumar; Houston B.S., Basic Medical Sciences, Texas A&M University, 1985	Internal Medicine University of Florida Medical Center; Gainesville, Florida
Fidone, George Steven; Helotes B.A., Biology, University of Texas at Austin, 1983	Pediatrics Scott and White Memorial Hospital; Temple, Texas
*Glebel, Dan William; Brenham B.S., Basic Medical Sciences, Texas A&M University, 1985	Internal Medicine Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota

- Glebel, Shelley Cole;** Houston
B.S., Zoology, Texas A&M University, 1984
B.S., Basic Medical Sciences, Texas A&M University, 1985
- *Hajek, Phillip David;** Auburn, Alabama
B.S., Pre-Med, Auburn University, 1983
- *Harrison, James Blake;** Baytown
B.S., Basic Medical Sciences, Texas A&M University, 1985
- *Hauck, Amy Patricia;** Austin
B.S., Zoology, Texas A&M University, 1985
- Hearn, Donald Rena;** Los Angeles, California
B.A., Human Biology, Stanford University, 1975
- Holden, John Patrick;** Thousand Oaks, California
B.S., Sociology/Pre-Medicine, Brigham Young University, 1981
- Hrabal, Tanya Lynn;** Houston
B.S., Zoology, Texas A&M University, 1981
- Hudson, Michael Royce;** Bryan
Texas A&M University, No Degree
- Johnson, Robert David;** Buda
B.S., Zoology, Texas A&M University, 1983
- Kilianski, Joseph Richard, Jr.;** Bedford
B.S., Basic Medical Sciences, Texas A&M University, 1985
- Leeds, Timothy Gerard;** Houston
B.S., Psychology, Texas A&M University, 1982
- Lichota, Derek Kent;** Norwalk, Connecticut
B.S., Biology, University of Miami, 1982
- Loeffler, Paul William;** St. Louis Park, Minnesota
B.M.E., University of Minnesota, 1982
- Luk, Stephen Shang-Yan;** South Pasadena, California
B.S., Neuroscience, Texas Christian University, 1983
- Maresh, Robert David;** Houston
B.A., Biology/English, Rice University, 1979
M.S., Biology, University of Houston, 1984
- Mendel, Charles Dudley, Jr.;** Seabrook
B.A., Chemistry, San Jacinto College, 1983
B.S., Basic Medical Sciences, Texas A&M University, 1985
- Moloo, Nasiruddin;** Montreal, Canada
Texas A&M University, No Degree
- Obstetrics/Gynecology
Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
- Orthopedics
Louisiana State University;
New Orleans, Louisiana
- Surgery
Scott and White Memorial Hospital;
Temple Texas
- Pediatrics
Naval Hospital; Portsmouth, Virginia
- Family Practice
San Jacinto Methodist Hospital;
Baytown, Texas
- Obstetrics/Gynecology
Albert Einstein Medical Center;
Philadelphia, Pennsylvania
- Pediatrics
University of Arkansas for Medical Sciences; Little Rock, Arkansas
- Family Practice
San Jacinto Methodist Hospital;
Baytown, Texas
- Obstetrics/Gynecology
Naval Hospital; Portsmouth, Virginia
- Obstetrics/Gynecology
Wesley Medical Center; Wichita, Kansas
- Orthopedics
Scott and White Memorial Hospital;
Temple Texas
- Otolaryngology
Louisiana State University;
Shreveport, Louisiana
- Surgery
Scott and White Memorial Hospital;
Temple, Texas
- Psychiatry
Tulane University Hospital;
New Orleans, Louisiana
- Family Practice
Scott and White Memorial Hospital;
Temple, Texas
- Internal Medicine
University of Iowa; Iowa City, Iowa

- Mynderse, Lance A.;** Houston
 B.S., Zoology, Duke University, 1974
 M.S., Pathology, Hahnemann University, 1982
- *Newman, Keith David;** Rockwall
 B.S., Psychology, Texas A&M University, 1982
 B.S., Basic Medical Sciences, Texas A&M University, 1985
- *Poetschke, Gretchen Rosanne;** Carrollton
 B.S., Basic Medical Sciences, Texas A&M University, 1985
- *Rahm, Mark Douglas;** Temple
 B.S., Zoology, Texas A&M University, 1984
- *Rutkowski, John Anthony;** Kirkwood, New York
 B.S., Basic Medical Sciences, Texas A&M University, 1985
- Sallis, Robert Edward;** Brea, California
 B.S., Science, U.S. Air Force Academy, 1982
- Schnitzer, Mark Steven;** Dallas
 B.S., Electrical Engineering, Washington University, 1981
 M.S., Electrical Engineering, Texas A&M University, 1986
- Silverman, Maxine Lee;** Sarasota, Florida
 B.S., Psychology, University of Florida, 1980
 M.A., Social and Behavioral Science, University of South Florida, 1981
- Smith-Blair, Gayle LaTreece;** Dallas
 B.S., Basic Medical Sciences, Texas A&M University, 1985
- *Temple, Samuel Drew;** Paris
 B.S., Basic Medical Sciences, Texas A&M University, 1985
- Thomas, Elizabeth Harper;** Houston
 B.S., Biology, Baylor University, 1983
- Thomas, Haydn Mikel;** Billings, Montana
 B.S., Biology, University of Utah, 1979
- *Truitt, Timmy Doyle;** Abilene
 B.S., Biology, Abilene Christian University, 1982
- Wick, Lori L.;** Dallas
 B.A., Biology, Cornell University, 1981
 M.S., Physical Education, 1985
- Wong, Patrick;** Oakland, California
 B.A., Microbiology/Immunology, University of California at Berkeley, 1981
- Surgery
 Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
- Surgery
 Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
- Pediatrics
 Vanderbilt University; Nashville, Tennessee
- Orthopedics
 Scott and White Memorial Hospital; Temple, Texas
- Family Practice
 Memorial Medical Center; Corpus Christi, Texas
- Family Practice
 Kaiser Foundation Hospital; Fontana, California
- Neurosurgery
 Johns Hopkins Hospital; Baltimore, Maryland
- Pediatrics
 Shands Hospital at the University of Florida; Gainesville, Florida
- Psychiatry
 Alton Ochsner Medical Foundation; New Orleans, Louisiana
- Orthopedics
 University of Arkansas for Medical Sciences; Little Rock, Arkansas
- Internal Medicine/Anesthesiology
 University of Kansas Medical Center; Kansas City, Kansas
- Psychiatry
 University of Kansas Medical Center; Kansas City, Kansas
- Radiology
 Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
- Pediatrics
 Scott and White Memorial Hospital; Temple, Texas
- Psychiatry
 University of California at Davis Medical Center; Sacramento, California

Class of 1986

Name, Home City, and Degree	Residency Appointment
*Bilhartz, David Lee; Dallas B.S., Basic Medical Sciences, Texas A&M University, 1984	Urology Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
Black, Karen Shipp; Fort Worth B.S., Biology, Texas A&M University, 1982 B.S., Basic Medical Sciences, Texas A&M University, 1984	Internal Medicine Georgetown University Hospital; Washington, D.C.
*Buchanan, Charles Martin; Irving B.S., Pharmacy, University of Houston, 1975 B.S., Basic Medical Sciences, Texas A&M University, 1984	Internal Medicine Medical College of Virginia Hospital; Richmond, Virginia
Campbell, Kevin Lance; Ballinger B.S., Biology, Angelo State University, 1982 B.S., Basic Medical Sciences, Texas A&M University, 1984	Medicine/Pediatrics Northeastern Ohio Universities College of Medicine; Youngstown, Ohio
Casper, Wayne Michael; Austin B.A., Economics, Rice University, 1980 M.A., Economics, University of Texas at Austin, 1982	Internal Medicine New England Deaconess Hospital Harvard Medical School; Boston, Massachusetts
Dean, John Cannon; Midland B.S., Mechanical Engineering, Texas A&M University, 1981	Orthopedic Surgery University of Utah Medical Center; Salt Lake City, Utah
*Durica, Sherri Sutton; Corpus Christi B.S., Biology, Texas A&M University, 1978 M.S., Biology, Texas A&M University, 1982	Internal Medicine Scott and White Memorial Hospital; Temple, Texas
Fife, Terry Douglas; Scottsdale, Arizona B.S., Chemistry, University of Arizona, 1982	Internal Medicine University of California at Davis Medical Center; Sacramento, California
*Frazier, Charles Richard; Garland B.S., Microbiology, Texas A&M University, 1978 M.S., Microbiology, Texas A&M University, 1982 B.S., Basic Medical Sciences, Texas A&M University, 1984	General Surgery Scott and White Memorial Hospital; Temple, Texas
Frazier, Jane Ellen; Richardson B.S., Psychology, Texas A&M University, 1979 B.S., Basic Medical Sciences, Texas A&M University, 1984	Internal Medicine Scott and White Memorial Hospital; Temple, Texas
Gold, Jay Alexander; New York, New York B.A., Liberal Arts, St. John's College, 1971 J.D., New York University School of Law, 1974 M.P.H., Harvard University, 1977	Internal Medicine St. Vincent's Medical Center; Bridgeport, Connecticut
Gubbels, Jeffery Lynn; Thompsons Texas A&M University, No Degree	Obstetrics/Gynecology Scott and White Memorial Hospital; Temple, Texas
Guy, Ronald Mark; Rapid City, South Dakota B.A., Chemistry, Baylor University, 1981	Flexible Louisiana State University Hospital; Shreveport, Louisiana
Hall, Pamela Ann; Corpus Christi B.S., Biology, Texas A&M University, 1976 M.S., Management, Texas A&M University, 1979	Transitional Memorial Medical Center; Corpus Christi, Texas

- Kennedy, Jill; Weslaco**
 B.S., Nursing, University of Texas School of Nursing, 1976
- *Knudsen, John Marshall; Temple**
 B.B.A., Finance, University of Texas at Austin, 1982
 B.S., Basic Medical Sciences, Texas A&M University, 1984
- *Mackan, Emmett Ridley; Beaumont**
 B.S., Chemical Engineering, Texas A&M University, 1979
 B.S., Basic Medical Sciences, Texas A&M University, 1984
- McBride, Dan Gamble; Arlington**
 B.A., Chemistry, Trinity University, 1982
- *McMillon, Janie Sue; Waco**
 B.S., Microbiology, Texas A&M University, 1980
 M.S., Veterinary Microbiology, Texas A&M University, 1982
 B.S., Basic Medical Sciences, Texas A&M University, 1984
- McMullen, Kevin Michael; Dunedin, Florida**
 B.S, Biological Sciences, Florida Institute of Technology, 1981
- Miles, Patrick Paul; Bedford**
 Texas A&M University, No Degree
- *Milman, Robert Michael; Houston**
 B.S., Psychology, Brown University, 1982
- Nguyen, Hung Trong; Rockdale**
 Texas A&M University, No Degree
- Pepper, Robert Thomas; Beaumont**
 B.S., Biology, Texas A&M University, 1982
 B.S., Basic Medical Sciences, Texas A&M University, 1984
- Piwonka, Thomas Edward; Caldwell**
 B.S., Building Construction, Texas A&M University, 1978
 B.S., Basic Medical Sciences, Texas A&M University, 1984
- *Routh, Larry Keith; Garland**
 B.A., Chemistry, Baylor University, 1981
- Routh, Lisa Carole; Alta Loma**
 B.S., Basic Medical Sciences, Texas A&M University, 1984
- Seideman, Sandra Kay; Austin**
 B.B.A., Marketing, University of Texas at Austin, 1971
- Skiba, William Edward; Miami, Florida**
 A.B., Biochemical Sciences, Harvard University, 1974
 Ph.D., Biochemistry, University of Miami, 1980
- Psychiatry**
 Timberlawn Psychiatric Hospital;
 Dallas, Texas
- Radiology**
 Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
- General Surgery**
 Scott and White Memorial Hospital;
 Temple, Texas
- Urology**
 Tulane University Hospital;
 New Orleans, Louisiana
- Obstetrics/Gynecology**
 Scott and White Memorial Hospital;
 Temple, Texas
- General Surgery**
 Alton Ochsner Medical Foundation;
 New Orleans, Louisiana
- Internal Medicine**
 Ohio State University Hospital;
 Columbus, Ohio
- Radiology**
 Scott and White Memorial Hospital;
 Temple, Texas
- Internal Medicine**
 Baptist Memorial Hospital University of Tennessee; Memphis, Tennessee
- Family Practice**
 Baylor College of Medicine;
 Houston, Texas
- Anesthesiology**
 St. Paul Medical Center
 University of Texas Southwestern
 Medical School; Dallas, Texas
- Internal Medicine**
 Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
- Psychiatry**
 Mayo Graduate School of Medicine Mayo Clinic; Rochester, Minnesota
- Pediatrics**
 Scott and White Memorial Hospital;
 Temple, Texas
- Psychiatry**
 Louisiana State University Medical Center; New Orleans, Louisiana

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

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

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

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

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

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

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

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

General Surgery
St. Joseph Hospital; Houston, Texas

Internal Medicine
Scott and White Memorial Hospital;
Temple, Texas

Pediatrics
Scott and White Memorial Hospital;
Temple, Texas

Family Practice
McLennan County Family Practice
Program; Waco, Texas

Urology
Scott and White Memorial Hospital;
Temple, Texas

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

Internal Medicine
Scott and White Memorial Hospital;
Temple, Texas

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

Class of 1985

Name, Home City, and Degrees

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

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

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

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

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

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

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

Residency Appointment

Pediatrics
Baylor College of Medicine Affiliated
Hospitals; Houston, Texas

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

Orthopedic Surgery
John Peter Smith Hospital;
Fort Worth, Texas

General Surgery
Mayo Clinic; Rochester, Minnesota

General Surgery
Eastern Virginia Affiliated Hospitals;
Norfolk, Virginia

General Surgery
Methodist Hospital; Dallas, Texas

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

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

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

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

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

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

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

Kessinger, William Andrew; Jacksboro
 B.S. Microbiology, University of
 Texas-Arlington, 1980
 B.S. Medicine, Texas A&M University, 1983

Laurel, Andrew Lynn; San Antonio
 B.S. Preprofessional Studies, University of
 Notre Dame, 1981

Lubrano, Vincent Michael; Fort Worth
 B.S. Chemistry, Texas A&M University, 1980
 B.S. Medicine, Texas A&M University, 1983

***Malsky, Melba Lewis;** Winters
 B.A. English Literature, Rice University, 1973

Marquardt, Michael Paul; Houston
 B.S. Microbiology, Texas A&M University, 1978
 B.S. Medicine, Texas A&M University, 1983

***Maupin, Warren Bryan, II;** Dallas
 B.S. Chemical Engineering, Texas A&M
 University, 1969
 M.S. Physics, Air Force Institute of Technology,
 1976

McCrary, Kathryn Diane; Arlington
 B.S. Animal Science, Texas A&M University,
 1980

McLaughlin, Roane Ham; Colleyville
 B.S. Microbiology, University of
 Texas-Arlington, 1980

Millan, Marla Eugenia; Sweeny
 B.A. Biology, Texas A&M University, 1981
 B.S. Medicine, Texas A&M University, 1983

Pediatrics
 Scott and White Memorial Hospital;
 Temple, Texas

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

Family Practice
 John Peter Smith Hospital;
 Fort Worth, Texas

General Surgery
 Mayo Clinic; Rochester, Minnesota

Anesthesiology
 Scott and White Memorial Hospital;
 Temple, Texas

Ophthalmology
 Vanderbilt University Medical Center;
 Nashville, Tennessee

Pediatrics
 University of Oklahoma Health
 Sciences Center;
 Oklahoma City, Oklahoma

Medicine
 Tripler Army Medical Center;
 Honolulu, Hawaii

Internal Medicine
 Texas Tech University Affiliated
 Hospitals; Amarillo, Texas

Leave of Absence

Pediatrics
 Scott and White Memorial Hospital;
 Temple, Texas

Radiology
 Scott and White Memorial Hospital;
 Temple, Texas

Anesthesiology
 Baylor University Medical Center;
 Dallas Texas

Obstetrics/Gynecology
 John Peter Smith Hospital;
 Fort Worth, Texas

Obstetrics/Gynecology
 University of Arkansas for Medical
 Sciences; Little Rock, Arkansas

Morris, Steven Michael; Missouri City
Texas A&M University, No Degree

Rascoe, Terry Glenn; Houston
B.S. Biology, Baylor University, 1981

Schmitt, Conrad Vernon; San Jose, CA
B.A. Psychology, San Jose St. University, 1974
M.A. Psychology, San Jose St. University, 1976
M.A. Zoology, University of Texas, 1980
Ph.D. Science Education, University of Texas,
1982
B.S. Medicine, Texas A&M University, 1983

Shaw, James Burr; Houston
B.A. Biology, University of Texas, 1981

Shin, James Seung; Dallas
B.S. Medicine, Texas A&M University, 1983

Solomon, Murray David; Houston
B.S. Economics, University of Houston, 1977
M.A. Economics, University of Houston, 1979
B.S. Medicine, Texas A&M University, 1983

Terry, Gregory Morrell; Baytown
B.A. Biology, University of Texas, 1981

Windsor, Robert Earl; Dallas
Texas A&M University, No Degree

General Surgery
Mayo Clinic; Rochester, Minnesota

Family Practice
McLennan County Family Practice
Program; Waco, Texas

Psychiatry
University of California (Davis)/
Affiliated Hospitals;
Sacramento, California

Internal Medicine
Mayo Clinic; Rochester, Minnesota

Family Practice
John Peter Smith Hospital;
Fort Worth, Texas

Pathology
Baylor College of Medicine Affiliated
Hospitals; Houston, Texas

Family Practice
Texas Tech University Affiliated
Hospitals; Amarillo, Texas

Physical Medicine and Rehabilitation
University of Texas at San Antonio
Affiliated Hospitals;
San Antonio, Texas

Class of 1984

Name, Home City, and Degrees

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

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

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

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

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

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

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

Residency Appointment

Internal Medicine
Texas Tech Affiliated Hospitals;
Lubbock, Texas

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

Family Practice
Martin Army Community Hospital;
Fort Benning, Georgia

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

Family Practice
St. Paul Hospital; Dallas, Texas

Pediatrics
Methodist Hospital of Indiana;
Indianapolis, Indiana

Radiology
Scott and White Memorial Hospital;
Temple, Texas

- Holland, Robert Leslie;** Walla Walla, Washington
B.S. Electrical Engineering Washington State University, 1970
M.S. Microbiology, Texas Tech University, 1976
Ph.D. Biophysics, University of Texas Health Science Center at Dallas, 1980
B.S. Medicine, Texas A&M University, 1982
- Tanner-Inman, Lynne Ellen;** Little Rock, Arkansas
B.S.E. Biology, University of Arkansas, 1972
M.Ed. Biology, University of Arkansas, 1973
B.S. Medicine, Texas A&M University, 1982
- Inman, William Bufford;** Austin
B.A. Chemistry, University of Texas, 1980
B.S. Medicine, Texas A&M University, 1982
- Jaffe, Sydney Joy;** Elkins Park, Pennsylvania
B.S. Biology, Princeton University, 1979
- *Jeffries, Joel Travis;** Austin
B.A. Liberal Arts, University of Texas, 1980
B.S. Medicine, Texas A&M University, 1982
- Jennings, Anthony John;** Houston
B.S. Medicine, Texas A&M University, 1982
- Kerr, Jeffrey Stuart;** Houston
B.S. Electrical Engineering, Rice University, 1979
- Kluppel, Shannon Eugene Keith;** Houston
B.S. Medicine, Texas A&M University, 1982
- Lind, Gregory Charles;** Bandera
B.S. Geography, Sam Houston State University, 1979
B.S. Medicine, Texas A&M University, 1982
- *Manthely, Joseph Richard III;** Dallas
University of Texas at Arlington, No Degree
- Martin, Alan William;** Houston
B.S. Medicine, Texas A&M University, 1982
- McLaurin, Scott Sutton;** Houston
B.S. Zoology, Texas A&M University, 1980
B.S. Medicine, Texas A&M University, 1982
- McNair, David Paul;** Athens
B.S. Chemistry, Tulane University, 1974
M.S. Chemistry, North Texas State University, 1979
- Montamat, Stephen Craig;** Clear Lake City
B.S. Medicine, Texas A&M University, 1982
- Mouser, Rebecca Elizabeth;** Midland
B.S. Medicine, Texas A&M University, 1982
- Obstetrics/Gynecology
University of South Dakota Affiliated Hospitals; Yankton, South Dakota
- Psychiatry
University of Texas Southwestern Medical School Affiliated Hospitals; Dallas, Texas
- Internal Medicine
Presbyterian Hospital of Dallas; Dallas, Texas
- Internal Medicine
University of Virginia Affiliated Hospitals; Roanoke, Virginia
- Orthopedics
University of Missouri Medical Center; Columbia, Missouri
- Radiology
University of Texas Medical Branch Hospitals; Galveston, Texas
- Pediatrics
Scott and White Memorial Hospital; Temple, Texas
- Pediatrics
Oklahoma Children's Memorial Hospital; Oklahoma City, Oklahoma
- Family Practice
Montgomery County Medical Education Foundation; Conroe, Texas
- Family Practice
John Peter Smith Hospital
Fort Worth, Texas
- Transitional
University of Arkansas College of Medicine; Little Rock, Arkansas
- General Surgery
St. Joseph Hospital;
Houston, Texas
- Family Practice
Methodist Central Hospital;
Dallas, Texas
- Internal Medicine
Baylor College of Medicine Affiliated Hospitals; Houston, Texas
- Pediatrics
Scott and White Memorial Hospital;
Temple, Texas

- Pegram, Langdon;** De Land, Florida
B.S. Elementary Education, Stetson University, 1967
B.A. English, Stetson University, 1967
M.A. Counseling, Stetson University, 1972
- *Probe, Robert Alan;** Nassau Bay
B.S. Medicine, Texas A&M University, 1982
- Remenchik, Ellen Jean;** Houston
B.A. Psychology, Texas A&M University, 1977
- Ross, Michael Delbert;** Abilene
B.S. Medicine, Texas A&M University, 1982
- Shlossman, Phillip Aaron**
B.S. Biology, Florida Institute of Technology, 1976
M.S. Marine Fisheries, Texas A&M University, 1980
- Tuel, David Charles;** Tyler
B.S. Chemical Engineering, University of Texas at Austin, 1977
B.S. Medicine, Texas A&M University, 1982
- Tyler, Barbara Petrini;** Scranton, Pennsylvania
B.A. Physics, Cornell University, 1975
- Williams, Charles Dee;** Palestine
B.S. Medicine, Texas A&M University, 1982
- Yatsu, John Shigeru;** Honolulu, Hawaii
B.S. Biology, Rensselaer Polytechnic Institute, 1975
B.S. Medicine, Texas A&M University, 1982
- Pediatrics**
Mayo Clinic; Rochester, Minnesota
- Orthopedics**
Scott and White Memorial Hospital;
Temple, Texas
- Internal Medicine**
Central Texas Medical Foundation at
Brackenridge Hospital; Austin, Texas
- General Surgery**
Scott and White Memorial Hospital;
Temple, Texas
- Obstetrics/Gynecology**
Wilmington Medical Center;
Wilmington, Delaware
- Pediatrics**
University of Southern Alabama Affiliated
Hospitals;
Mobile, Alabama
- Pediatrics**
Scott and White Memorial Hospital;
Temple, Texas
- Pediatrics**
Methodist Hospital of Indiana;
Indianapolis, Indiana
- General Surgery**
University of Texas at Houston
Affiliated Hospitals; Houston, Texas

Class of 1983

- | Name, Home City, Degrees | Residency Appointment |
|---|--|
| Benold, Terrell Barnes; Georgetown
B.A. Biology/Psychology, Rice University, 1979 | General Surgery
Ochsner Medical Foundation;
New Orleans, Louisiana |
| Boucher, David Charles; Dublin
B.S. Biology, Tarleton State University, 1977
B.S. Medicine, Texas A&M University, 1981 | Internal Medicine
Scott and White Memorial Hospital;
Temple, Texas |
| Cunningham, Joe Hal; Troup
B.S. Medicine, Texas A&M University, 1981 | Internal Medicine
Scott and White Memorial Hospital;
Temple, Texas |
| Dean, John Anderson; Seymour
B.S. Medicine, Texas A&M University, 1981 | General Surgery
Ochsner Medical Foundation;
New Orleans, Louisiana |
| Felts, Frank Terrell; Houston
B.S. Medicine, Texas A&M University, 1981 | General Surgery
Scott and White Memorial Hospital;
Temple, Texas |

- Foster, Dayne Michele;** Houston
B.S. Pharmacy, University of Texas at Austin,
1975
B.S. Medicine, Texas A&M University, 1981
- Frazer, Richard Charles;** Houston
B.S. Medicine, Texas A&M University, 1981
- *Fusselman, Robert Edward;** Pearland
B.S. Medicine, Texas A&M University, 1981
- *Godwin, Gregory Charles;** Gordonville
B.S. Medicine, Texas A&M University, 1981
- Herron, Richard Edward;** Lake Jackson
B.S. Biology, Baylor University, 1981
- Holman, Steven Wayne;** Conroe
B.S. Zoology, Texas A&M University, 1979
B.S. Medicine, Texas A&M University, 1981
- Howard, Walter Kim;** Hawkins
B.A. Biology, Texas A&M University, 1979
B.S. Medicine, Texas A&M University, 1981
- Hutchinson, Lewis Ray;** Corpus Christi
B.S. Biochemistry, Texas A&M University, 1978
B.S. Medicine, Texas A&M University, 1981
- Jones, Phillip Wayne;** Houston
B.S. Medicine, Texas A&M University, 1981
- *Kitayama, Darryl Wesley;** Donna
B.S. Medicine, Texas A&M University, 1981
- Klump, Delbert Craig;** Navasota
B.S. Chemical Engineering, University of Texas
at Austin, 1977
B.S. Medicine, Texas A&M University, 1981
- Mahaffey, Andrew Glenn;** Nassau Bay
B.S. Zoology, Texas A&M University, 1979
B.S. Medicine, Texas A&M University, 1981
- Miller, Evelyn Elaine;** Oklahoma City,
Oklahoma
B.S. Mathematics, Northeastern State College,
Oklahoma, 1973
- Pitts, Suzanne;** Caldwell
B.S. Medicine, Texas A&M University, 1981
- *Powell, Kenneth Ray;** San Antonio
B.S. Biology, Texas A&M University, 1979
B.S. Medicine, Texas A&M University, 1981
- Powell, Lisa Gilliland;** Temple
B.S. Medicine, Texas A&M University, 1981
- Pediatrics
Scott and White Memorial Hospital;
Temple, Texas
- General Surgery
Mayo Graduate School of Medicine;
Rochester, Minnesota
- Postdoctoral Fellow
Medical Biochemistry
Texas A&M University;
College Station, Texas
- Internal Medicine
Scott and White Memorial Hospital;
Temple, Texas
- Family Practice
University of Texas Southwestern
Medical School; Wichita Falls, Texas
- Obstetrics/Gynecology
University of Tennessee Memorial
Hospital; Knoxville, Tennessee
- Diagnostic Radiology
Scott and White Memorial Hospital;
Temple, Texas
- Otolaryngology
Scott and White Memorial Hospital;
Temple, Texas
- General Surgery
St. Joseph Hospital; Houston, Texas
- General Surgery
University of Oklahoma Medical Center;
Tulsa, Oklahoma
- Internal Medicine
Scott and White Memorial Hospital;
Temple, Texas
- Obstetrics/Gynecology
Scott and White Memorial Hospital;
Temple, Texas
- Psychiatry
Oklahoma Memorial Hospital;
Oklahoma City, Oklahoma
- Anesthesiology
Scott and White Memorial Hospital;
Temple, Texas
- Internal Medicine
University of Arkansas College of
Medicine Hospital;
Little Rock, Arkansas
- Obstetrics/Gynecology
University of Arkansas College of
Medicine Hospital;
Little Rock, Arkansas

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

Class of 1982

- Name, Home City, and Degrees
- Akers, Kyle Clayton; Texas City**
B.S. Zoology, Texas A&M University, 1979
B.S. Medicine, Texas A&M University, 1980
- Axel, Neil Jeffrey; Houston**
B.S. Medicine, Texas A&M University, 1980
- Boyd, Matthew Lee; Pasadena**
B.S. Medicine, Texas A&M University, 1980
- Brady, William Henry III; San Antonio**
B.A. Biology, Our Lady of the Lake University of San Antonio, 1978
- Brlister, Marilyn Kay; Bend**
B.S. Medicine, Texas A&M University, 1980
- Residency Appointment
- General Surgery**
Ochsner Foundation
New Orleans, Louisiana
- Anesthesiology**
Scott and White Memorial Hospital;
Temple, Texas
- General Surgery**
St. Joseph's Hospital; Houston, Texas
- Pediatrics**
Scott and White Memorial Hospital;
Temple, Texas
- Family Practice**
Medical Center of Georgia;
Columbus, Georgia

- Chambless, Terry Craig; Hewitt**
 B.S. Biology, Baylor University, 1975
 M.S. Biochemistry, Texas A&M University, 1977
- Clanton, Craig Warren; Houston**
 B.S. Medicine, Texas A&M University, 1980
- David, David Robert; Bryan**
 B.S. Medicine, Texas A&M University, 1980
- David, John Lewis Jr.; Dalhart**
 B.S. Zoology, Texas A&M University, 1976
- Dean, Thurston Evans III; Midland**
 B.S. Zoology, Texas A&M University, 1977
 B.S. Medicine, Texas A&M University, 1980
- Dodds, Russell Elliott; Dallas**
 B.S. Medicine, Texas A&M University, 1980
- Dragutsky, Michael Steven; McAllen**
 B.S. Medicine, Texas A&M University, 1980
- Duhon, Craig Robert; Whitehouse**
 B.S. Medicine, Texas A&M University, 1980
- Feinstein, Robert; Galveston**
 B.E.E. Electrical Engineering, Pratt Institute, 1965
 M.S. Bioengineering, University of Michigan, 1967
 M.S. Systems Engineering, University of Michigan, 1968
 Ph.D. Bioengineering, University of Michigan, 1970
- Henderson, James Porter; Houston**
 B.S. Medicine, Texas A&M University, 1980
- Holguin, Mark Hudson; San Antonio**
 B.S. Medicine, Texas A&M University, 1980
- Holmes, Ernest Samuel IV; Dallas**
 B.S. Biology, University of Texas at Arlington, 1978
 B.S. Medicine, Texas A&M University, 1980
- Hood, Jan Leenette; White Oak**
 B.S. Medicine, Texas A&M University, 1980
- Lindberg, Orrin Henry; San Antonio**
 B.S. Medicine, Texas A&M University, 1980
- Matherne, Gaynell Paul Jr.; Houston**
 B.S. Medicine, Texas A&M University, 1980
- Morgan, Edward Allen; Bryan**
 B.S. Biology, Texas A&M University, 1978
- Internal Medicine**
 Scott and White Memorial Hospital;
 Temple, Texas
- Family Practice**
 Mayo Graduate School of Medicine;
 Rochester, Minnesota
- Family Practice**
 Madigan Army Medical Center;
 Fort Lewis, Washington
- Obstetrics/Gynecology**
 University of Tennessee Memorial;
 Knoxville, Tennessee
- General Surgery**
 Baylor College of Medicine;
 Houston, Texas
- Flexible**
 University of Tennessee Memorial;
 Knoxville, Tennessee
- Internal Medicine**
 Baptist Memorial;
 Memphis, Tennessee
- Orthopedics**
 Scott and White Memorial Hospital;
 Temple, Texas
- Anesthesiology**
 Washington University School of
 Medicine; Saint Louis, Missouri
- Pediatrics**
 Vanderbilt University;
 Nashville, Tennessee
- Internal Medicine**
 Scott and White Memorial Hospital;
 Temple, Texas
- Pediatrics**
 Scott and White Memorial Hospital;
 Temple, Texas
- Family Practice**
 Louisiana State University;
 Shreveport, Louisiana
- Psychiatry**
 University of California;
 Irvine, California
- Pediatrics**
 Oklahoma Memorial Hospital;
 Oklahoma City, Oklahoma
- Obstetrics/Gynecology**
 Baylor College of Medicine;
 Houston, Texas

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

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

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

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

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

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

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

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

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

Anesthesiology
University of Texas Medical Branch;
Galveston, Texas

Internal Medicine
University of Texas Medical Branch;
Galveston, Texas

Emergency Medicine
Akron General Hospital; Akron, Ohio

Internal Medicine
Mayo Graduate School of Medicine;
Rochester, Minnesota

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

Internal Medicine
Scott and White Memorial Hospital;
Temple, Texas

Internal Medicine
Mayo Graduate School of Medicine;
Rochester, Minnesota

Class of 1981

Name, Home City, and Degrees

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

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

Byrd, Richard Lee; Houston
B.S. Medicine, Texas A&M University, 1979

Cantu, Julius Francisco, Jr.; Groves
B.S. Medicine, Texas A&M University, 1979

Field, Timothy Edward; Plainview
B.S. Zoology, Texas A&M University, 1977

Fischer, Stephen Carl; Houston
B.S. Medicine, Texas A&M University, 1979

Frank, Bryan Lee; Richardson
B.S. Medicine, Texas A&M University, 1979

Franklin, Jay Olen; Tyler
B.S. Medicine, Texas A&M University, 1979

Residency Appointment

Pathology
Scott and White Memorial Hospital;
Temple, Texas

Surgery
Scott and White Memorial Hospital;
Temple, Texas

Pediatrics
Scott and White Memorial Hospital;
Temple, Texas

Surgery
St. Elizabeth's Hospital;
Youngstown, Ohio

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

Psychiatry
University of Texas Affiliated Hospitals;
Houston, Texas

Pediatrics
Scott and White Memorial Hospital;
Temple, Texas

Internal Medicine
Scott and White Memorial Hospital;
Temple, Texas

- Friedman, Alice Diane;** Houston
B.S. Medicine, Texas A&M University, 1979
- *Hall, Jeffrey Timothy;** Seabrook
B.S. Medicine, Texas A&M University, 1979
- Hall, Jhon Ulrey;** Pasadena
B.S. Medicine, Texas A&M University, 1979
- *Hodges, John Carlton;** Dublin
B.S. Zoology, Texas A&M University, 1979
B.S. Medicine, Texas A&M University, 1979
- *Holder, Pamela Dawn;** Albany
B.S. Medicine, Texas A&M University, 1979
- Krebs, Henry John III;** Deer Park
B.S. Medicine, Texas A&M University, 1979
- Latson, Gary Wayne;** Amarillo
B.S. Medicine, Texas A&M University, 1979
- Lawson, David Scott;** Houston
B.S. Medicine, Texas A&M University, 1979
- Lockett, Kerry Lane;** Zephyr
B.S. Medicine, Texas A&M University, 1979
- Luedecke, Robert Alan;** Corpus Christi
B.S. Medicine, Texas A&M University, 1979
- Matthews, Thomas Keller III;** Houston
B.S. Medicine, Texas A&M University, 1979
- Naul, Lea Gill III;** Rockdale
B.S. Medicine, Texas A&M University, 1979
- *Ogden, Paul Edward;** Abilene
B.S. Zoology, Texas A&M University, 1979
B.S. Medicine, Texas A&M University, 1979
- *Orth, Scott Thomas;** Houston
B.S. Medicine, Texas A&M University, 1979
- Ozler, Gary Pearson;** Burnet
B.S. Zoology, Texas A&M University, 1979
B.S. Medicine, Texas A&M University, 1979
- *Rudd, Susan;** Houston
B.S. Medicine, Texas A&M University, 1979
- Internal Medicine
Roanoke Memorial Hospital;
Roanoke, Virginia
- Flexible, Orthopedic Surgery
Baylor College of Medicine Affiliated
Hospitals; Houston, Texas
- Flexible, Internship
St. Joseph's Hospital; Houston, Texas
- Internal Medicine
Scott and White Memorial Hospital;
Temple, Texas
- Anesthesiology
Scott and White Memorial Hospital;
Temple, Texas
- Radiology — Diagnostic
University of Texas at San Antonio
Teaching Hospitals;
San Antonio, Texas
- Anesthesiology
Duke University Medical Center;
Durham, North Carolina
- Family Practice
John Peter Smith Hospital;
Fort Worth, Texas
- Family Practice
Regional Academic Health Center;
Lubbock, Texas
- Anesthesiology
University of Texas at San Antonio
Teaching Hospitals;
San Antonio, Texas
- Anesthesiology, VA Internship
Scott and White Memorial Hospital Olin E.
Teague Veterans' Center;
Temple, Texas
- Radiology — Diagnostic
Scott and White Memorial Hospital;
Temple, Texas
- Family Practice
McLennan County Family Practice
Program; Waco, Texas
- Flexible, Orthopedic Surgery
Scott and White Memorial Hospital;
Temple, Texas
- Family Practice
University of Texas Health Science
Center; Wichita Falls, Texas
- Pediatrics
Mayo Graduate School of Medicine;
Rochester, Minnesota

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

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

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

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

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

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

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

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

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

Anesthesiology
Scott and White Memorial Hospital;
Temple, Texas

Pediatrics
Scott and White Memorial Hospital;
Temple, Texas

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

Psychiatry
Duke University Medical Center;
Durham, North Carolina

Psychiatry
Mayo Graduate School of Medicine;
Rochester, Minnesota

Pediatrics
Children's Medical Center;
Dallas, Texas

Internal Medicine
Alton Ochsner Medical Foundation;
New Orleans, Louisiana



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CAMPUS ENVIRONMENTS

College Station

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

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

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

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

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

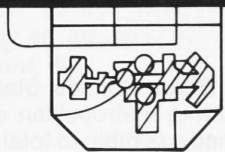
Temple

Temple, the largest city in Bell County, Texas, is located near the geographic and population center of Texas. Temple itself has a population of about 50,000. The Killeen-Temple-Belton-Fort Hood metropolitan area has a population of about 260,000. 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 Southwest Wholesale Groceries, Ralph Wilson Plastics, Inc., American Desk, Artco-Bell, and the Santa Fe Railroad.

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

SOUTH 31st STREET

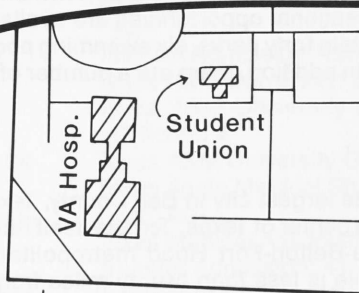


SCOTT & WHITE
HOSPITAL

LOOP 360 - HWY 190

AVENUE M

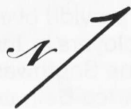
SOUTH 1st STREET



VA Hosp.

Student
Union

HWY 36



TEMPLE CAMPUS

Texas A&M University
College Station, TX 77843

Student Activities Office
Student Group Sickness and Accident Insurance
The Pavilion, Room 208
(409 845-1133)

Coordinator of Veterans and War Orphans Services
Ramp B, Hart Hall
(409 845-1637)

Scott and White Memorial Hospital and Clinic

2401 South 31st Street
Temple, Texas 76508

Dennis L. Myers, Assistant Dean for Student Affairs, Temple
Office of Student Affairs, Temple
The Alexander Building
(817 774-2111 ext. 2395)

Gary Smith, Director of Graduate Education
Department of Graduate Medical Education
The Alexander Building
(817 774-2111 ext. 2232)

Olin E. Teague Veterans' Center

Temple, Texas 76501

Facilities Management Office, Student Apartments
7 Teague Place
(817 773-0513)

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

The American College Testing Program
P.O. Box 451
Iowa City, Iowa 52240

MCAT Student Manual
The Association of American Medical Colleges
Office of Membership and Subscriptions
One Dupont Circle, N.W., Suite 200
Washington, D.C. 20036

COLLEGE OF MEDICINE

Texas A&M University
College Station, Texas 77843-0100

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