Texas A&M Health Science Center Vision
Our health science center is a premier assembly of colleges devoted to educating health professionals and researchers of extraordinary competence and integrity. Our faculty, staff and students are united by a belief that all people, regardless of geography, economics or culture, deserve the benefits of compassionate care, superior science and exceptional health education.

College of Medicine Mission
Our mission is to improve the health and well-being of the people of Texas through excellence in education, research and health care delivery.

College of Medicine Vision
Our vision is to develop the innovators and leaders in medicine and biomedical research who will transform American medicine in the 21st century.

College of Medicine Values
Our actions and decisions are guided by these values:

- Accountability
- Achievement
- Creativity
- Diversity
- Integrity
- Respect
- Service
- Transparency

College of Medicine Priorities
Our five key strategic planning priorities are:

- Teaching and Learning
- Primary Care and Rural Medicine
- Diversity
- Interdisciplinary Research
- Financial Stability

Diversity
Texas A&M Health Science Center educational programs are designed to meet the health workforce needs of Texas. HSC admissions criteria are aligned to foster the graduation of health professionals who will be responsive to the needs of the increasingly diverse population of the state. The HSC is committed to the importance of diversity in the recruitment and education of future health professionals, and holds that diversity enhances the delivery of care and service to communities across a range of racial and ethnic groups and promotes efforts to reduce health disparities among these groups. A diverse student body raises the cultural competence of all health professional students.

Diversity is not solely limited to race and ethnicity, but also encompasses talents, life skills and special attributes. This commitment to diversity is expressed through the identification, recruitment, selection, matriculation and graduation of qualified health professions students from different racial, ethnic and/or disadvantaged backgrounds. Our goals are for the HSC student body to mirror the growing diversity of the Texas population and to promote an understanding of the varied needs of the individuals and communities that comprise the population of Texas.

While every effort has been made to verify the accuracy of information in this publication, the Texas A&M Health Science Center College of Medicine reserves the freedom to change admission and degree requirements, curriculum, courses, rules, regulations, tuition, fees and any other information published herein without notice. This publication is not to be regarded as a contract or to create any obligation on the part of the College of Medicine.
The Texas A&M Health Science Center College of Medicine, established in 1977 with a charter class of 32 students, has evolved over the last three decades into an exceptional, growing institution.

This growth, however, has not altered the college’s commitment to personalized medical education. Enrollment is limited to 200 students per year. The size of the class and the diversified clinical training programs enable each student to receive the individual attention needed in a complex and rapidly changing educational pathway. As one of the most ambitious and comprehensive medical colleges in the nation, the College of Medicine offers the Doctor of Medicine, Doctor of Philosophy, and combined M.D./Ph.D., M.D./M.B.A., M.D./M.P.H. and M.D./M.S. degrees.

Students are also given the opportunity and flexibility to select areas of specialization to customize the program to fit their individual needs and goals as related to the practice of medicine and delivery of health care.

Students have several options for study on our four-year campuses in Bryan-College Station and Temple and our two-year campuses in Round Rock and Dallas. Each campus has a distinct environment and offerings for education and lifestyle.

The College of Medicine is the result of affiliations between outstanding clinical facilities in Bryan-College Station, Corpus Christi, Dallas, the Houston area, Round Rock, and Temple. More information about our affiliates is available on the following pages, as well as at www.medicine.tamhsc.edu.

The College of Medicine is part of an up-and-coming health science center committed to improving the health of Texans through integrated education, research and public service programs that emphasize accessibility and public and community health.

The college remains committed to providing an environment that promotes integrity, compassion and excellence in its future physicians and scientists. An emphasis on an enhanced level of integration of materials and organ-systems-based instruction in the medical sciences produces individuals with the knowledge, expertise and vision to meet the challenges facing modern medicine.

There are five primary study tracks available:

- **Four years in Bryan-College Station**
- **Four years in Temple**
- **Two years of basic science training in Bryan-College Station followed by two years of clinical training in Temple**
- **Two years of basic science training in Bryan-College Station followed by two years of clinical training in Round Rock**
- **Two years of basic science training in Temple followed by two years of clinical training in Round Rock**

Select clinical rotations in Houston, Corpus Christi and other locations are also available. These options allow students to select a track that best fits their interests and career goals.
Bryan-College Station
College Station Medical Center
- Provides medical services including cardiac, pediatrics, obstetrics, general and specialty surgery, cancer treatment, inpatient rehabilitation and outpatient physical therapy and a dialysis center

Family Medicine Residency
- Provides electives for third- and fourth-year medical students and trains residents for practice in urban, suburban and rural settings, or careers in academic medicine

The Physicians Centre
- A medical and surgical hospital focused on outpatient procedures, with patient rooms, six operating rooms, endoscopy suites, diagnostic imaging, pathology and laboratory capabilities

Scott & White Clinic
- Multispecialty health care facility designed to deliver patient care from birth to adulthood

St. Joseph Health System
- 210-bed facility that offers emergency, inpatient and outpatient surgery, and critical care services and includes clinics in eight counties around the Brazos Valley

Corpus Christi
CHRISTUS Spohn Health System
- Provides health care to more than 600,000 residents in 13 counties and consists of six hospital campuses

Driscol Children’s Hospital
- 188-bed tertiary care and regional referral center offering comprehensive medical and surgical services

Dallas Area
Baylor University Medical Center
- A major patient care, teaching, research/referral center (regional, national and international)
- Licensed for 1,025 beds with 1,012 active physicians, 214 medical residents and fellows
- Flagship of the Baylor Health Care System
- 23 owned, leased, affiliated and short stay hospitals, along with 88 primary care centers, specialty care and senior health centers, 12 rehabilitation clinics and 17 ambulatory surgery centers
- Re-verified as a Level I Trauma Center
- Major solid organ and bone marrow transplant center
- For the 18th consecutive year, U.S. News and World Report has listed BUMC in its “America’s Best Hospitals” issue
- Opened in March 2011, its new 467,000 square foot Cancer Center, the first dedicated cancer hospital in North Texas

Cook Children’s Hospital*
- Licensed for 318 beds; after current expansion 428 beds
- Level II Pediatric Trauma
- Consistently named to the U.S. News and World Report Best Hospitals Guide

Timberlawn Mental Health System*
- By end of WWII, national reputation in treatment of post-traumatic stress disorder in returning veterans
- Specialty programs—trauma, geriatrics, addiction, dual diagnosis

“‘Tis education forms the common mind; just as the twig is bent the tree’s inclined.”
-Alexander Pope
Round Rock/Austin
Dell Children’s Medical Center
• Only dedicated freestanding pediatric facility in the region

Lone Star Circle of Care
• Nonprofit, primary care practice that operates eight community health clinics for uninsured and underinsured residents in Williamson and surrounding counties

Scott & White University Medical Campus
• Offers more than 24 specialty services for adults and children and includes a 72-bed hospital

Seton Medical Center Williamson
• Largest and only faith-based hospital in Williamson County with 181 beds and capacity for more than 350 beds in the next 10 to 15 years

St. David’s Round Rock Medical Center
• The first Level II trauma program in Williamson County, including The Heart and Vascular Center with express testing, inpatient capacity of 177 beds with private rooms, The Women’s Center, and a comprehensive emergency room

Austin State Hospital
• Offers adult psychiatric services, specialty adult services, and child and adolescent psychiatric services

Temple Area
Central Texas Veterans Health Care System
• Contains one of the newest VA inpatient medical/surgical and psychiatric teaching hospitals—Olin E. Teague Veterans Center
• Contains one of the largest inpatient psychiatric facilities—Waco VA Medical Center
• Operates a large stand-alone outpatient clinic in Austin and four community-based outpatient clinics

Carl R. Darnall Army Medical Center
• Provides care to 145,000 active duty and retired military beneficiaries and their dependents and operates a 264-bed facility that can be expanded to 2,780 beds upon full mobilization
• One of three Army hospitals to train physicians in emergency medicine

Scott & White Hospital and Clinic
• One of the largest integrated multi-specialty health care systems in the United States
• Has served as one of the College of Medicine’s clinical partners since its inception in 1977
• Includes the new Center for Advanced Medicine, a 381-bed digital hospital with more than 21,000 annual admissions
• The only Level I Trauma Center between Austin and Dallas
• Employs 900 physicians and scientists, and trains approximately 400 residents and fellows
• State of the art facilities including, Center for Advanced Medicine, HSC/S&W Medical Education Center, a Clinical Simulation Center with high fidelity human patient simulators
• S&W has a long history of health care that spans 114 years with 87-year history of graduate medical education and 34-year history of undergraduate medical education

*Affiliation agreement was still in process at the time of publication. To verify this affiliation or to see a complete list visit medicine.tamhsc.edu/campuses.
The College of Medicine offers exceptional training on four campuses in Bryan-College Station, Dallas, Round Rock and Temple. The college is headquartered at the Health Professions Education Building on the Texas A&M Health Science Center Bryan Campus. Each campus has a distinct environment and various offerings for education and lifestyle.

Bryan-College Station
Bryan Population: 72,015
College Station Population: 80,315
Brazos County Population: 159,006

Local History
Bryan was established in 1859 in honor of William Joel Bryan, nephew of Texas pioneer Stephen F. Austin. In 1876 the State of Texas established the Agricultural and Mechanical College of Texas just south of Bryan. College Station, as it was named as a railway stop by the Postal Service in 1877, flourished in the 1960s when the college opened its doors to women and became Texas A&M University.

Location
The College of Medicine’s location in the Bryan-College Station community offers medical students the opportunity to interact with Texas A&M University students, while also enjoying a short commute to four major metropolitan areas. The area, commonly called Aggieland, is located near three of the nation’s 10 largest cities: Houston, Dallas and San Antonio.

Parks and Recreation
Recreational activities are an integral part of the Bryan-College Station community lifestyle. Indoor and outdoor enthusiasts enjoy recreational ranches, museums, theaters, bed & breakfasts, fitness clubs, golf courses, parks and a winery. Additionally, Lake Bryan, Gibbons Creek Reservoir and Lake Somerville are within a short driving distance for fishing, camping and water sports.

Arts and Culture
From the New York City National Opera to the Brazos Valley Chorale, Bryan-College Station offers nothing short of cultural excellence. Its art galleries, museums and historical sites present daily opportunities for cultural indulgences. Regional theater and musical groups provide frequent entertainment, while Texas A&M University and the Wolf Pen Creek Amphitheater attracts national and international acts.

Dallas
Dallas Population: 1,316,350
Dallas Metro Area Population: 6,447,615
Dallas County Population: 2,345,815

Local History
In February 1856, Dallas was granted a town charter by the Sixth Texas Legislature. In 1873 the Houston and Texas Central Railroad and the Texas and Pacific Railway routes intersected in Dallas, thus ensuring its future as a commercial center. In the 1930s Dallas became the financial center for the oil industry in Texas and Oklahoma. In 1958 a version of the integrated circuit was invented in Dallas by Jack Kilby of Texas Instruments, and this event punctuated Dallas’ development as a center for high-technology manufacturing.

Location
The eighth-largest city and part of the fourth-largest metropolitan area in the nation, Dallas covers approximately 343 square miles. Dallas is home to the Texas A&M Health Science Center Baylor College of Dentistry, Texas’ second oldest dental school. The city attracts worldwide travelers, making the area the most popular visitor and leisure destination in Texas. Dallas is centrally located and within a four-hour flight from most North American destinations. DFW International Airport is the world’s third busiest airport, offering nearly 1,800 flights per day to domestic and international destinations. Additionally, Dallas Love Field Airport is located 10 minutes from downtown.

Parks and Recreation
The Dallas Park and Recreation Department maintains more than 23,018 park acres including 13 lakes and 85.5 miles of jogging and bike trails. The city has more than 370 parks, 250 tennis courts, 180 playgrounds, 120 soccer fields, 115 picnic pavilions, 25 pools, 45 recreation centers and numerous sports fields and golf courses.

Special facilities include the Dallas Aquarium at Fair Park, Dallas Arboretum, Dallas Zoo, Fair Park, Texas Discovery Gardens and White Rock Lake.
Arts and Culture
In Dallas visitors can ride one of the fastest growing light rail systems in the nation or the historic, free McKinney Avenue Trolley from the Dallas Arts District throughout the Uptown area with its restaurants, pubs, boutique hotels and shops. Sights include Victory Park, the Arts District, the Dallas Zoo, the Winspear Opera House, the Wyly Theatre, the Nasher Sculpture Center and the Meyerson Symphony Center.

Round Rock
Round Rock Population: 96,992
Williamson County Population: 353,830
Local History
In 1851 a small community was formed on the banks of Brushy Creek near a large round rock located in the middle of the creek that marked a convenient low-water crossing for wagons, horses and cattle. The first postmaster called the community Brushy Creek, but in 1854 the small settlement was renamed Round Rock in honor of this now famous rock. After the Civil War, Jesse Chisholm began to move cattle from South Texas through Round Rock on the way to Abilene, Kansas, and the route he established became known as the Chisholm Trail. Most of the old buildings, including the old Saint Charles Hotel, are still there today.

Location
Round Rock, one of the fastest growing cities in Texas, offers quality education, a healthy economic landscape and affordable cost of living while maintaining a fun and safe environment. The city is known for its award-winning master plan, park system and school district as well as for having some of the lowest crime, property tax and utility rates in Texas. In 2008 Kiplinger’s Personal Finance ranked the Austin-Round Rock metro area No. 6 on its list of best places to live, work and play, and Money magazine ranked Round Rock No. 7 on its list of America’s Best Places to Live. Located 15 miles north of Austin in the Central Texas hill country, Round Rock is the worldwide headquarters for Dell and has more than 20 major employers. www.roundrocktexas.gov

Parks and Recreation
Round Rock has 34 developed parks gracing over 1,700 acres and trail corridors. Old Settlers Park offers 570 acres of rolling countryside for local events and festivals. The city is also the home of the Round Rock Express, the AAA affiliate of the Texas Rangers, and Dell Diamond. Round Rock offers several retail centers, such as La Frontera, Round Rock Crossing, Boardwalk and specialty shops in historic downtown. With the addition of IKEA and Round Rock Premium Outlets, the city boasts more than 400 stores and restaurants. www.roundrocktexas.gov/parksandrec

Temple
Temple Population: 58,447
Bell County Population: 257,897
Local History
In 1881 Temple Junction was created as the Gulf, Colorado and Santa Fe Railway pushed north from Galveston. The new settlement was named in honor of Bernard Moore Temple, the Santa Fe’s chief engineer. The city was incorporated in 1882 and soon exceeded the size of nearby Belton, the county seat of Bell County. Today, the city is one of the leading medical centers in the Southwest, thanks to Scott & White Hospital and Clinic, and the Olin E. Teague Veterans Center.

Location
Temple is located in the heart of Central Texas on I-35 connecting the international markets of Mexico and three of the largest metro areas in Texas: Austin, Dallas-Ft. Worth and San Antonio. www.ci.temple.tx.us

Parks and Recreation
Temple is surrounded by some of the most picturesque country in Texas. Visitors and outdoor enthusiasts can enjoy hiking, picnicking, rock climbing, wildlife observation and fishing at scenic Lake Belton, Stillhouse Hollow Lake, Friar’s Creek Nature Preserve, Mother Neff State Park and Miller Springs Nature Center. www.templeparks.net

Arts and Culture
Ideally located on I-35, Temple offers a delightful atmosphere in the heart of Central Texas. Events include the Central Texas Air Show, Bloomin’ Temple Festival, Jazz Festival and the Hot Summer Sounds concert series.
The Texas A&M Health Science Center College of Medicine operates a number of research facilities, including an electronics instrumentation shop and a center for flow cytometry and image analysis.

**Cardiovascular Research Institute**
The Cardiovascular Research Institute (CVRI) was established in 1998 when the Texas A&M University System Board of Regents approved changing the name from the Microcirculation Research Institute that was established in 1981. The institute is made up of the Division of Vascular Biology and the Division of Molecular Cardiology.

**Center for Health Systems and Design**
The Center for Health Systems and Design (CHSD) collaborates with the Texas A&M University College of Architecture to coordinate interdisciplinary research and education programs that transfer technology developed by disciplines outside of medicine into health care. The center supports graduate students training in interdisciplinary approaches to problems in health care facility design and development. CHSD has incorporated units of study from public health, preventive medicine, health care economics and medical sociology. The center studies the effects of health care facility design and planning on the organization and delivery of care.

**Center for Microencapsulation and Drug Delivery**
The Center for Microencapsulation and Drug Delivery (CMDD) is a multidisciplinary faculty group from five colleges with the capability to design and test delivery of pharmaceuticals. Ongoing research includes basic and applied microencapsulation technologies for biomedical use, controlled release drug delivery systems, nonbiomedical applications in nanotechnology, molecular biology assay systems, and microcapsule products for petrochemical, agricultural and environmental control industries. Associate members of the CMDD include researchers from other universities, the Institute for Research Inc. in Houston, and the National Aeronautics and Space Administration.

**Institute for Regenerative Medicine**
The Institute for Regenerative Medicine (IRM) was established in 2008 as a joint venture between the College of Medicine, Scott & White and the Temple Bioscience District. The IRM bridges the gap between the College of Medicine, Scott & White and the Temple Bioscience District. The IRM tackles the ambitious task of discovering novel therapies for intractable diseases to relieve human suffering.

**Institute of Ocular Pharmacology**
The Institute of Ocular Pharmacology (IOP) conducts research to benefit individuals who suffer from age-related ocular degeneration and other conditions of the eye. Its research includes the delivery of drugs to the eye as well as through the blood stream. IOP is the first institute of its kind in the world to develop collaboration between ophthalmologists and pharmacologists to advance eye drug research.

**J.L. Huffines Institute for Sports Medicine and Human Performance**
The J.L. Huffines Institute for Sports Medicine and Human Performance serves as a central administrative structure to facilitate active interchanges among scientists and practitioners (strength and sport conditioning coaches, athletic trainers, health and wellness coordinators, clinicians, and rehabilitation specialists). It also serves as a first-class research and teaching facility at Texas A&M University.
Biochemistry and Structural Biology
The research in biochemistry and structural biology focuses on understanding how proteins are synthesized and assembled into functional macromolecules. State-of-the-art biophysical technologies are utilized to define mechanisms for protein folding and protein trafficking in the endoplasmic reticulum and nucleus. Reverse genetic approaches are used to elucidate the roles of newly discovered proteins and define functional protein domains. Most researchers collaborate with Texas A&M University groups in the Chemistry and Biochemistry/Biophysics departments.

Cardiovascular and Integrative Biology
The cardiovascular and integrative biology research group focuses on the discovery of molecular and cellular mechanisms that control complex physiological processes. Research emphasizes the cardiovascular system, including the regulation of vascular tone, vascular remodeling, angiogenesis and cardiac function. Diabetes, hypertension, atherosclerosis, cancer, heart failure and cardiac hypertrophy are highlighted. Approaches span the analysis of single cells to isolated organs and whole organisms, including transgenic animal models.

Cell and Molecular Biology
Research in cell and molecular biology spans a wide range of biological processes, from events that occur within the nucleus to those in the extracellular matrix. Individual programs focus on understanding basic cellular mechanisms (DNA replication, transcription and protein sorting), molecules that control complex regulatory pathways (signal transduction, gene regulation, epigenetics, development and differentiation), and the molecular basis for cancer. Most faculty members belong to multidisciplinary research groups affiliated with Texas A&M University, including interdisciplinary programs in genetics, neurosciences and virology.

Neurosciences
The Neurosciences group embraces a number of diverse interests in the central and peripheral nervous systems, including gene expression, neurophysiology, neuropharmacology, neuroendocrinology and signal transduction. Faculty members research alcohol and drug abuse, circadian rhythms, neural development and neurodegeneration. They belong to several research-oriented interdepartmental faculties affiliated with Texas A&M University, including the neuroscience and toxicology programs.

Microbial and Molecular Pathogenesis
Research in microbial and molecular pathogenesis focuses on the interplay between pathogens and hosts. Emphasis is placed on the infectious agents themselves (viruses, bacteria and parasites), including host recognition and invasion. The mechanism of action of toxins and pore-inducing proteins are highlighted. Research on host resistance/response pathways includes studies on cellular and humoral immunity. Groundbreaking investigations in vaccine development and delivery provide strong clinical applications to this program. Other focal areas include molecular pathogenesis in cancer, oncogene expression and angiogenesis.

Our faculty participate in multidisciplinary endeavors within the Texas A&M Health Science Center and Texas A&M University.
Central to the extraordinary educational experience, students enjoy individual attention and a family-like atmosphere. This intimacy generates camaraderie and loyalty evident in all phases of student life—academic, professional, recreational and community service.

Community service has always been a priority for students at the College of Medicine. Each class chooses to support different human service organizations throughout the year, thereby focusing their energy and enthusiasm on a variety of cases within the community, the state and beyond. These organizations allow students to grow through leadership, teamwork and participation.

Within the College of Medicine are many opportunities for students to express themselves and to demonstrate a variety of talents and interests far beyond classrooms and laboratories. This added dimension to a challenging academic regimen plays a vital role in the development of well-rounded individuals and physicians.

Students are actively involved in the following community service and outreach projects:

• Health Circus—A traveling health fair, founded by two students in 2002, Health Circus provides underserved families of the Brazos Valley with free immunizations, child health screenings, dental screenings, blood pressure, glucose checks and health information from local health and wellness organizations.

• Stand Tall Against Tobacco (STAT)—Created in 2000 by students, STAT promotes tobacco prevention and cessation within the community by targeting middle school students in an interactive, educational program.

• Health for All Free Clinic—Founded in 1987, Health for All is a nonprofit, volunteer-based, community-supported primary health care clinic and pharmacy that provides free medical, pharmaceutical, counseling, vision and foot care to low-income adults in the Brazos Valley.

• Martha’s Clinic—A student-run, free clinic, Martha’s Clinic was founded in 1994 by two students who saw a need for better health care for the homeless population in Temple.

For a complete list of student organizations, visit wwwmedicine.tamhsc.edu/student-affairs/organizations and www.hlth4all.org
A student’s ability to pay for medical school is not a factor in the admissions process at the Texas A&M Health Science Center College of Medicine, and approximately 90 percent of College of Medicine students receive financial assistance. Financial aid is federal, state, institutional and private funds, with most long-term student loans payable after graduation.

Financial Aid

The estimated expenses in the table below represent an average cost-of-living budget for medical students for four years of medical school. For additional educational expenses or further assistance, visit the Office of Student Financial Aid.

Federal Financial Aid

The first step in the financial aid process is to complete a Free Application for Federal Student Aid (FAFSA) after January 1 in the year of expected enrollment. Students accepted to the College of Medicine who complete the FAFSA are considered automatically for a combination of loans and grants. More detailed information is provided when applicants are accepted to the College of Medicine.

Residence Status

Texas residence requirements are governed by state law and by policies and regulations established by the Texas Higher Education Coordinating Board. Since there are many factors that affect an individual’s state residence status, applicants whose residence status is not clearly established should request a residence questionnaire, available from the Texas Medical and Dental Schools Application Service (TMDSAS).

Generally, an individual who is 18 years of age or older who has come from outside of Texas and who is gainfully employed in Texas for a 12-month period immediately preceding registration in an educational institution shall be classified as a resident student as long as he/she continues to maintain a legal residence in Texas. [Statute: Section 54.052 (e)].

### FINANCIAL AID AND EXPENSES

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Note: All figures including tuition and estimated expenses are subject to change.
Student Services
Counseling
Counseling is available for students with academic, psychological and other personal concerns in two categories:
- General counseling is available from a number of sources within the College of Medicine.
- Personal counseling is provided on a short-term basis at no cost to the student. Students requiring long-term counseling will be referred by the counselor to a therapist. Students may select counselors other than those provided by the College of Medicine, but payment for counseling will then be the responsibility of the student.

Academic Tutoring
The Office of Student Affairs in conjunction with the Academic Enhancement Program coordinates tutoring activities for students facing academic difficulty. Tutoring is available from professors and qualified upperclassmen, and academic consultation and counseling are provided by an educational specialist in the Academic Enhancement Program. During the third and fourth years, students select a faculty advisor with whom they can meet and discuss choices of electives, residency training and career opportunities.

Clinical Simulation Centers
Clinical simulation provides students with immediate feedback, repetitive practice, curriculum integration, adapted learning, individualized learning, reflective learning and the opportunity to learn from mistakes without risk.
multiple clinical scenarios/skills can be rehearsed in a safe, controlled setting. Typical curricula include: surgical skills/procedures; obstetrical emergencies; neonatal, pediatric, and adult resuscitation; and team communication. Other hospital and ambulatory environments such as operating suites, labor and delivery suites, or intensive care units can be duplicated as training venues.

Additionally, one of the simulation facilities features five Fundamentals of Laparoscopic Surgery (FLS) skill stations and serves as a FLS testing site for the American College of Surgeons. These resources provide educational experiences for medical students, residents, nursing, allied health professionals, as well as the medical staff to enhance quality patient care.

Round Rock
The Round Rock Simulation Center is located in the Health Science Center facility at 3950 N. A.W. Grimes Blvd. A 17,000-square foot facility, it features state-of-the-art operating room, and infant and adult simulators, along with other training tools in a hospital setting. The SIM facility combines the expertise and the skills of nursing students, medical students, future hospital administrators and public health professionals under one roof.

Temple
The Clinical Simulation (SIM) Center in Temple is a collaborative initiative of Temple College’s Divisions of Health Sciences and Nursing, Scott & White Hospital and the College of Medicine. Located on the Temple College Campus adjacent to the Olin E. Teague Veterans Center, the Clinical Simulation Center is at the heart of teaching and assessing competencies for all health care providers. It is a modern mini-hospital designed for multidisciplinary health care education, using high fidelity human patient simulators.

The SIM Center includes an ambulance bay, ER receiving and nurses’ station, two emergency treatment units, two intensive care units, a surgical suite with scrub room and an exceptional simulation control room.

Libraries
College Station
The Medical Sciences Library, adjacent to the College of Medicine’s Reynolds Medical Building, contains more than 100,000 bound journals and books and subscribes to 1,700 serial titles. This collection is supplemented through rapid interlibrary loan service. Sophisticated computer resources are also available to students, faculty and clinicians at the library.

Dallas
The Baylor Health Sciences Library (BHSL) at Baylor University Medical Center is shared with Texas A&M Health Science Center Baylor College of Dentistry and includes study space for 140 people. A variety of computer resources are available in the BHSL, including a 30-seat computer lab with plans for an additional 30-seat lab to be operational by fall 2011. The BHSL maintains a medical collection of over 25,000 print volumes, over 10,000 electronic journal subscriptions, and over 1,500 electronic books. BHSL also licenses over 100 databases, including UpToDate, Dynamed, Zynx Evidence, ACP-Pier, and dozens of other evidence-based medical resources.
Temple

The libraries of the Olin E. Teague Veterans Center and Scott & White extend library privileges to College of Medicine students. The Teague library includes more than 5,000 books, 600 audiovisual programs and 400 current journals. The Scott & White library includes nearly 9,000 books and more than 900 current journals.

Learning Resources

Learning Resources is a student-centered hub that provides study space and curriculum materials in 24-hour facilities on the Temple and Bryan-College Station campuses. Student have access to computers, HSC Wi-Fi, required and recommended curriculum materials, as well as other electronic and print educational resources. Media, Blackboard and other staff specialists will answer questions and provide assistance in using equipment and resources. medicine.tamhsc.edu/learning-resources/

College Station

The Medical Sciences Library (MSL) occupies more than 44,000 square feet containing holdings of more than 120,000 print volumes and 1,600 serial titles. Table and carrel seating, as well as study rooms, are available on both floors of the library.

Bryan

The MSL provides an on-site medical librarian at the Bryan campus, who works with Learning Resources staff to provide educational and information resources and services. A blended book collection—from both Learning Resources and MSL—serves resident HSC user groups, including College of Medicine.

Round Rock

MSL cooperates with the College of Medicine in providing information services and resources at the Round Rock campus. The 2,000 square foot space on the third floor of the building accommodates about 50 individuals with a mixture of tables, chairs, individual carrels and a large outdoor patio with additional seating. Three small-group study rooms are available within area, and eleven such rooms are available on the same floor outside of the area. Computer resources include four public workstations, and, for laptop users, numerous power outlets and ubiquitous wireless network throughout the campus.

An MSL librarian is based in an office on-site, and provides expert assistance to students, faculty, and staff in locating evidence-based clinical information and performing literature searches. MSL maintains a small book collection in the space, which supports the educational requirements of the various clerkships.

Temple

While MSL does not have a physical presence at the Temple campus, the librarian based at the Round Rock campus provides remote assistance and is available to travel to Temple for group support or one-on-one instruction. MSL supports the College of Medicine phased curriculum in Temple through its educational program.

Dallas

In cooperation with the Baylor College of Dentistry Library, MSL will provide instruction for the evidence-based medicine rotation within the third-year internal medicine clerkship. The BCD Library and MSL work closely together to ensure that all HSC students and faculty are connected to information resources to support teaching, learning, and research.
Undergraduate Course Requirements

Most entering students complete a baccalaureate degree before enrolling. However, students may enroll with 90 semester hours of college work or without a baccalaureate degree, from a fully accredited college or university in the United States, provided their academic record, dedication to service, capacity for effective interactions and life experiences are comparable or superior to those students who complete the baccalaureate degree.

The following courses are required with at least a grade of "C" from a fully accredited college or university in the United States and must be completed before or by the time of enrollment:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology (with laboratories)</td>
<td>8 Semester</td>
</tr>
<tr>
<td></td>
<td>or 12 Quarter Hours</td>
</tr>
<tr>
<td>Advanced Biological Sciences *</td>
<td>6 Semester</td>
</tr>
<tr>
<td></td>
<td>or 9 Quarter Hours</td>
</tr>
<tr>
<td>General Chemistry (with laboratories)</td>
<td>8 Semester</td>
</tr>
<tr>
<td></td>
<td>or 12 Quarter Hours</td>
</tr>
<tr>
<td>Organic Chemistry (with laboratories)</td>
<td>8 Semester</td>
</tr>
<tr>
<td></td>
<td>or 12 Quarter Hours</td>
</tr>
<tr>
<td>General Physics (with laboratories)</td>
<td>8 Semester</td>
</tr>
<tr>
<td></td>
<td>or 12 Quarter Hours</td>
</tr>
<tr>
<td>Math-Based Statistics</td>
<td>3 Semester</td>
</tr>
<tr>
<td></td>
<td>or 5 Quarter Hours</td>
</tr>
<tr>
<td>English</td>
<td>6 Semester</td>
</tr>
<tr>
<td></td>
<td>or 9 Quarter Hours</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td>47 Semester</td>
</tr>
<tr>
<td></td>
<td>or 71 Quarter Hours</td>
</tr>
</tbody>
</table>

The statistics course should be taught in the math or statistics department. Statistics courses taught at other departments may be considered with appropriate documentation and testimony from faculty.
Application Information
The College of Medicine participates in the Texas Medical and Dental Schools Application Service (TMDSAS). TMDSAS is a centralized processing service for applicants to first-year entering classes at the Texas public medical schools. TMDSAS provides one standardized application form online. [www.utsystem.edu/tmdsas](http://www.utsystem.edu/tmdsas)

The application for admission can be submitted as early as May 1 but no later than October 1. The TMDSAS application fee is $75, and the fee will increase by $10 with each school selected. Mail all supporting documents, including academic transcripts and letters of evaluation, to:

**TMDSAS**
702 Colorado Street, Suite 6.400
Austin, Texas 78701
For more information, call (512) 499-4785 or email TMDSAS@utsystem.edu.

Secondary Application
The secondary application is required and must be completed and submitted online. The secondary application fee is $60 and nonrefundable. The secondary application can be submitted as early as May 1 but no later than October 1. Applicants will not be considered for further evaluation until the TMDSAS and secondary applications have been properly completed, appropriate MCAT scores released and letters of evaluation submitted. An invitation to complete the secondary application is not required.

Screening of Applications
The process of screening applications for an interview is highly selective. It is critical for the admissions committee to understand the circumstances of applicants, giving careful consideration to their history of academic and MCAT performances and to those characteristics, backgrounds and situations that reflect a meaningful record of accomplishment and experience. However, it must be understood that not all of these applications under review will result in either an interview or an offer of admission. Applicants are screened for interview on academic performance and intellectual capacity, dedication to service, capacity for effective interactions, special life circumstances, and other compelling factors, such as but not limited to the following:
- Health care related experiences
- Involvement in community human service activities
- Leadership in school organizations or community projects
- Motivation for medicine as a career
- Quality of personal statement
- Support of faculty and mentors
- Circumstances indicative of some hardship or adversity
- Socioeconomic background
- Race and ethnicity
- First generation to attend or graduate from a college or university
- Parents with high school or less education
- Need to work while attending high school and/or college
- Responsible for the care of others or the rearing of children
- Region in which applicant resides
- Region in which applicant’s high school district is located
- Comparative availability of physicians in applicant’s region of residence (underserved area)
- Experience of other cultures and the human condition, including foreign language proficiency
Letters of Evaluation
Health professions advisors and faculty play an important role in helping the admissions committee assess intellectual ability, personal attributes and promise for medicine as a career. Therefore, prospective applicants are urged to get to know their advisors and teaching faculty early in their undergraduate education experience to ensure support of their application.

Applicants should submit letters of evaluation or a Health Professions Committee Evaluation packet directly to TMDSAS. All letters of evaluation submitted by the evaluator or advising office must be written on and mailed in official school or business letterhead and envelope or submitted electronically via Interfolio or Virtual Evals. Additionally, all evaluations must be written during the year of application; otherwise, they will not be considered official. Letters can be submitted by postal mail in official school/organization envelopes or submitted electronically via Interfolio or Virtual Evals. A minimum of two evaluations from professors are required. Letters of reference from employment supervisors, physicians or other medical personnel are acceptable, but they must not be used in lieu of the minimum two academic letters. The College of Medicine may also request additional letters at any time.

If you are no longer in undergraduate school and cannot obtain an evaluation from your former health professions advisor or advisory committee, you have these options:

- If you are attending graduate school, one of your evaluations must be from your graduate advisor, a major professor or the chairperson of your major department.
- If you have been out of college for one year or more and are currently employed or in military service, submit at least two letters with one of your evaluations written by your immediate supervisor or commanding officer.
- If self-employed, one of your recommendation letters must be from a business associate. The evaluation must detail your performance.

If you cannot obtain a letter from a health professions advisor or faculty member because you have been out of school for several years, you must then submit at least three letters from employment supervisors or associates, medical personnel and/or research mentors to complete your evaluation packet.

Personal Interviews
Applicants are invited for personal interviews based upon their competitiveness within the screening process. Interview sessions typically are scheduled from August to December and are conducted either on the Bryan-College Station or Temple campus. Video interviews are also conducted to our satellite campuses in Round Rock and Dallas. Each applicant is given two individual 30-minute interviews by a combination of faculty admissions committee members, student admissions committee members, and basic science and clinical faculty or administrator guest interviewers. Personal interviews at the College of Medicine are a two-way exchange. Students are encouraged to use this experience to inquire and form opinions about the strengths and opportunities available at the College of Medicine. Although intellectual ability and record of achievement are important factors, the personal interview gives the admissions committee another measure by which to evaluate and understand other traits necessary to foster the development of a competent, compassionate and responsible physician. Ability to communicate and interact, social consciousness, maturity, personal integrity, tolerance and motivation for a career in medicine are among the characteristics sought.
International Students
Applicants who are not United States citizens or permanent residents of the United States and who have earned degrees from foreign institutions can be eligible for admission. Such applicants must have completed at least 90 credit hours of college course work including the prerequisites for medical school or earned a baccalaureate degree in a fully accredited college or university in the United States. International students with graduate or professional degrees are considered for admission only to the first-year medical class, regardless of the degrees held. Preference is given to U.S. citizens and documented U.S. permanent residents.

Canadian students are considered for admission provided they have successfully completed at least 90 credit hours or earned a baccalaureate degree at a fully accredited Canadian college or university. Please refer to the TMDSAS website for details.

Tender of Acceptance Offer
The College of Medicine tenders acceptances on a rolling basis between November 15 and December 31. A match will be conducted on February 1 to fill any remaining positions. For more information on the TMDSAS medical schools acceptance policy and procedures, refer to the TMDSAS website. www.medicine.tamhsc.edu/admission/index.html

Medical College Admission Test
The Admissions Committee considers Medical College Admission Test (MCAT) scores as part of its decision process. The MCAT is a standardized, multiple-choice exam designed to assess problem solving, critical thinking and writing skills, in addition to the examinee’s knowledge of science concepts and principles prerequisite to the study of medicine. Scores are reported in each of the following areas: verbal reasoning, physical sciences, biological sciences and writing sample.

The MCAT is offered 28 times over 24 test periods per year between January and September. The MCAT is a computer-based test, and Thomson Prometric delivers the computerized MCAT on behalf of the AAMC multiple times per year at hundreds of testing sites in North America as well as select sites in Europe, Asia, Australia, Africa and the Middle East. Once the MCAT has been taken, scores must be released directly to TMDSAS for those scores to be considered with the application. Refer to TMDSAS for instructions. The MCAT must have been taken no earlier than five years before the expected date of enrollment.

Although an applicant’s performance on the MCAT is used in admissions decisions, it is not used as the sole criterion for consideration. In the evaluation process, MCAT scores are used in combination with academic record and a host of other factors, as well as to compare an applicant’s scores with those of other applicants from similar socioeconomic backgrounds. This is possible only to the extent that this information can be appropriately ascertained and identified by the admissions committee in the application process.

For questions about registration and test administration, contact The MCAT Care Team at:

Association of American Medical Colleges
Medical College Admission Test
2450 N St., NW
Washington, DC 20037
(202) 828-0690
www.aamc.org/mcat

United States Medical Licensing Exam
The United States Medical Licensing Exam (USMLE) is a three-step comprehensive exam designed to evaluate the ability of a physician to effectively deliver patient care. Medical students must successfully pass the USMLE Steps 1 and 2 prior to taking Step 3. Students must then pass the USMLE Step 3 in order to receive a license to practice medicine. (Students must pass Steps 1 and 2 prior to graduation. College of Medicine students pass the USMLE Steps 1 and 2 at a rate of 96 to 98 percent and perform above the national average.)
Profile of the Entering Class of 2011

Applications-to-Selections Profile

- Applications Received: 3,480
- Applicants Interviewed: 740
- Places Available: 200

MCAT/GPA Profile

- 29.0 average MCAT score of entering students (2007–2010: 29.4)
- 3.65 average GPA of entering students (2007–2010: 3.69)

Program Selection Profile

- 4 Years
  - Temple: 73
- 2+2 Years
  - B-CS*: 39
  - Dallas: 28
  - Temple: 28
  - Temple/Round Rock: 26
  - B-CS*/Round Rock: 6

* Bryan-College Station

Gender Profile

- Female: 52%
- Male: 48%

- Female: 104
- Male: 96

Degrees/Majors Profile

- 100% received baccalaureate degrees
- 19% received graduate degrees
- 77% chose majors in sciences
- 69% chose the biomedical sciences

University Representation

- 60 universities represented
- 161 graduated from a university in Texas
- 39 graduated from a university outside of Texas

State Residency

- 190 Texas Resident 95%
- 10 Non-Resident 5%

Race/Ethnicity Profile

- Hispanic: 10.5%
- Asian: 30.0%
- Unreported: 9.5%
- African American: 2.0%
- Caucasian: 48.0%

Class Size (Number of Students by Year)

- 32 (1977)
- 31 (1980)
- 44 (1985)
- 47 (1990)
- 64 (1995)
- 76 (2000)
- 77 (2005)
- 76 (2006)
- 97 (2007)
- 135 (2008)
- 150 (2009)
- 150 (2010)
- 200 (2011)
APPLICATION AND ADMISSIONS TIMELINE

May
May 1 Earliest date to file TMDSAS and secondary applications. (TMDSAS and secondary applications accepted online only.)

June
June 1 TMDSAS begins processing completed applications and supporting materials.
College of Medicine begins processing secondary applications.

July
Review of TMDSAS and secondary applications begins.

August
Interviewing period begins.

September
Interviewing period continues.
September 30 Deadline TMDSAS applications due by 5:00 p.m. CST.

October
October 1 Deadline for filing COM secondary application due by 5:00 p.m. CST.
October 15 First round of acceptances to nonresidents and special programs, including M.D./Ph.D.

November
November 15 First round of acceptances to Texas residents.
Interviewing period continues.

December
Interviewing period ends.
Additional offers of acceptance made as needed.

December 31 Last day for the TMDSAS participating medical schools to make offers of acceptance via the rolling admissions process.

January
The MCAT is offered 28 times over 24 test periods per year, between January and September, at testing sites across the state and U.S.
January 2 Financial Aid process begins via the Free Application for Federal Student Aid (FAFSA).
January 10 Last day for accepted applicants to hold more than one acceptance at any of the TMDSAS participating schools.
January 10 Deadline for applicants to submit their preferences of schools at which they interviewed for the TMDSAS Match.

February
February 1 TMDSAS Match is conducted to fill any remaining positions in the class.
February 1 Notification of offers of acceptance.
February 15 Alternate list is formed.

March–April
Alternate list maintained.
Matriculation materials mailed to accepted applicants.
April 15 First notice to accepted applicants who hold one or more places at other medical schools.

May
May 15 Final notice to accepted applicants who hold one or more places at other medical schools.

June–July
Additional mailings to accepted students.
June 1 Last day for accepted applicants to hold more than one acceptance at any of the TMDSAS participating schools.
June 1 Last day to make offers of acceptance to alternates holding acceptances at other medical schools.

Last Week of July
Orientation, registration and first day of classes for incoming students.

“...The main part of intellectual education is not the acquisition of facts, but learning how to make facts live.”

-Oliver Wendell Holmes, Sr.
Admission is on a competitive basis, and the number admitted depends on the availability of places, faculty and facilities.

For students enrolled in M.D. degree programs at other United States medical colleges to be eligible for admission in advanced standing, the College of Medicine’s policy is to consider only those individuals who:

- Have been and are in good standing at their medical school.*
- Have maintained good academic standing.
- Have completed all their basic sciences in an LCME-accredited medical college in the United States.
- Seek admission into the first clinical year (year three of the medical program).
- Are making normal curricular progress where they are enrolled and eligible for continuation there.
- Are residents of the state of Texas.
- Have extraordinary personal or hardship reasons for wishing to transfer.

*There have been no issues related to professionalism, and no violations to the honor code or school ethics.

Admission is on a competitive basis, and the number admitted depends on the availability of places, faculty and facilities. There is no specific number of places set aside for advanced standing candidates and there is no guarantee that a seat(s) will be available.

General Requirements
Eligible candidates must submit:

- A personal letter requesting transfer and explaining in detail their reasons for seeking admission in advanced standing by December 1 of the year preceding enrollment.
- A letter of evaluation and support from the associate dean for student affairs or a person in a comparable office at the medical school they are attending by December 1.
- A completed application and filing fee of $50 submitted before the year of proposed enrollment (deadline set by Office of Admissions).
- Official transcripts from all undergraduate colleges, graduate school and medical colleges attended.
- Official MCAT scores.

For candidates to be considered for enrollment in advanced standing, they must interview with three members of the admissions committee who are clinical faculty and must have completed Step 1 of the USMLE prior to enrollment. Candidates are likely to enroll if they meet the general requirements listed above, have satisfactorily completed the basic science course content as that required of first- and second-year medical students at our College of Medicine, have gained a recommendation for admission in advanced standing from the admissions committee and passed the USMLE Step 1.

Eligible candidates must apply to the College of Medicine through the Texas Medical and Dental Schools Application Service (TMDSAS). The application may be accessed only after the applicant has been notified of eligibility.

Students Not Eligible for Admission in Advanced Standing

- Individuals who have been dismissed or who have withdrawn from their medical colleges.
- Individuals who have completed all their premedical or medical school work in a foreign country.
- Individuals from related professions, such as dentistry, or those who have completed the basic medical sciences in a graduate program, are not eligible for admission in advanced standing but may apply as first-year medical students.
The M.D./Ph.D. degree program trains biomedical scientists with an appreciation for both clinical medicine and basic medical science. This rigorous training produces biomedical scientists with unique insight into clinical problems. Graduates of this program are afforded many opportunities to make a major impact on many serious diseases including heart disease, diabetes, cancer and AIDS.

About the Program
The Texas A&M Health Science Center College of Medicine offers a combined training program leading to both M.D. and Ph.D. degrees. The purpose of the M.D./Ph.D. program is to train highly motivated medical students planning careers as physician-scientists. To accomplish this, our program integrates the studies and requirements for both the M.D. and Ph.D. degrees, providing students with many opportunities to relate their study of clinical medicine with basic biomedical science. Such training produces medical scientists with unique insights into human disease processes. This is an exciting time in medicine as the great strides that are being made in medical research are being translated into powerful therapeutic and diagnostic tools to improve patient care. Our program is committed to training future leaders in both basic science and clinical disciplines.

The M.D./Ph.D. program at the College of Medicine accepted its first student in 1992. We currently have 25 students in the program. Our program has many features that make it excellent for combined clinical and research training that on average lasts eight years. Our graduates are competitive at a national level and have matched at major residency programs.

Curriculum Format and Sequence
The M.D./Ph.D. program typically requires seven to eight years to complete the combined degree requirements. Students entering the program start their training in early June before the first year of medical school begins. During this summer period, entering students undertake an eight- to 10-week research rotation in a laboratory of their choosing. The summer between the first and second year of the basic science medical school curriculum is also used for laboratory rotations. These research rotations assist students in identifying a major discipline area and a faculty mentor for their graduate school training. Students are required to participate in the weekly M.D./Ph.D. journal club throughout their training. The program is flexible and is designed to meet the individual educational needs of the student. For example, M.D./Ph.D. students have two options for completing their training.

Option One
The first two years are spent in the regular medical school curriculum that covers the basic medical sciences. Students then undertake three to four years of graduate study and research.

Option Two
Students complete three years of medical school prior to starting their graduate training. After completing their Ph.D. training and defending their Ph.D. dissertation, students finish their final year of medical school.

Graduate Research Training
Students receive graduate research training through the Interdisciplinary Graduate Program in Medical Sciences. This program transcends traditional departmental boundaries, offering students the opportunity to do thesis research in any lab in the College of Medicine. M.D./Ph.D. students typically receive their research training in one of seven emphasis areas:

- Biochemistry and Structural Biology
- Biomedical Engineering
- Cell and Molecular Biology
- Microbial and Molecular Pathogenesis
- Neurosciences
- Space Life Sciences
- Systems and Translational Biology

Research training is available in a wide range of areas in the many labs from which a student can choose. Most faculty members employ multidisciplinary approaches and actively collaborate with other local or national/international scientists.

Applying to the Program
Admission to the M.D./Ph.D. program requires a bachelor’s degree from an accredited institution in the United States, an outstanding academic record, above average performance on the MCAT exam, significant research experience and at least three letters of recommendation, including at least one letter from a
research mentor. Interviews for the M.D./Ph.D. program are conducted in conjunction with those for medical school.

**Admission Requirements**

Apply through the AMCAS online application service. [www.aamc.org/students/applying/amcas/](www.aamc.org/students/applying/amcas/)

Students who also want to apply to the M.D.-only program at the College of Medicine must also apply through the Texas Medical and Dental Schools Application Service (TMDSAS). [www.utsystem.edu/tmdsas](www.utsystem.edu/tmdsas)

Applications to both the M.D. and M.D./Ph.D. programs require completion of secondary applications. [medicine.tamhsc.edu/education/md-phd/index.html](medicine.tamhsc.edu/education/md-phd/index.html)

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**For More Information:**

Julian Leibowitz, M.D., Ph.D.
Director, M.D./Ph.D. Program
Office of Research and Graduate Studies
TAMHSC College of Medicine
Medical Research and Education Building
8447 State Highway 67
Bryan, Texas 77807
[979] 436-0313 or 0311
Fax: [979] 436-0086
leibowitz@medicine.tamhsc.edu
medicine.tamhsc.edu/education/md-phd/index.html

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**M.D. Plus**

M.D. Plus is a new pathway for students who are interested in pursuing a Master of Science (M.S.) or a Master of Public Health (M.P.H.) at the Bryan-College Station, Houston or Temple campuses, in addition to the M.D. degree. The M.D. Plus program of study typically begins in the summer semester one year prior to beginning medical school at the College of Medicine. Students are considered only after acceptance to the College of Medicine.

For the M.S. degree, students complete 32 hours of didactic course work and research credits over four semesters (summer, fall, spring, and summer). In addition to the 32 credit hours, the M.S. requires completion and defense of a written thesis describing the student’s research project. For the M.P.H. degree, students complete 36 hours of didactic course work over three semesters (summer, fall, and spring) and culminate with a practicum experience in the next summer semester. [medicine.tamhsc.edu/mdplus/index.html](medicine.tamhsc.edu/mdplus/index.html)

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**M.D./M.P.H.**

Medical students interested in the M.P.H. program at the Texas A&M Health Science Center School of Rural Public Health (SRPH) are considered after successful completion of year two.

The cooperative degree program adds an additional year of coursework to the traditional four-year College of Medicine plan, requiring a full year of M.P.H. studies between years two and three of medical school.

Candidates for the combined degree must satisfy a number of prerequisites and are also required to complete a practicum as an elective credit for the College of Medicine and required credit for SRPH in year four of medical school. Four concentrations are offered within the M.P.H. program. [medicine.tamhsc.edu/admissions/md-mph.html](medicine.tamhsc.edu/admissions/md-mph.html)

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**M.D./M.B.A.**

Medical students interested in the M.B.A. program at Texas A&M University’s Mays Business School are considered after successful completion of year two.

The cooperative degree program adds an additional year of coursework to the traditional four-year College of Medicine plan, requiring a full year of M.B.A. studies after the second or third year of medical school.

Candidates for the combined degree are also obliged to complete a 10–12 week health-related business project during the fourth year of study.

Certificate programs and specializations allow students to customize their M.B.A. for maximum career advancement. [medicine.tamhsc.edu/admissions/md-mba.html](medicine.tamhsc.edu/admissions/md-mba.html)
The Doctor of Medicine degree requires a minimum of four years of study. The focus of the medical curriculum is an enhanced level of integration of material that is taught to students in the first two years. Students in the curriculum do not take separate courses in the traditional basic science disciplines of gross anatomy, biochemistry, genetics, physiology, histology, microbiology, immunology, pharmacology, pathology and neuroscience. Rather, this material is appropriately organized into integrated blocks of instruction of three to 10 weeks in duration depending on the theme of the block. Grades are issued for the individual blocks and not the separate disciplines taught within the blocks. Students are required to take and pass the National Board of Medical Examiners (NBME) Customized Comprehensive Exams at various points in the program that include questions in all medical science disciplines taught in the structured phases of the curriculum.

A second critical focus of the curriculum is a revised approach to how students are taught clinical skills particularly in the first year. Students learn physical diagnosis techniques earlier in the first year than in previous iterations of the curriculum. The organization of the curriculum during the first two years consists of two phases as follows:

Phase I begins when students start the first year of medical school and continues through the end of December (6 months). Phase I emphasizes the basic structure of the human body and basic principles of other medical science disciplines including gross anatomy, histology, biochemistry, genetics, pharmacology and cell-physiology. Additionally, courses are taught in medical humanities and ethics; clinical skills, including patient history and doctor-patient communication skills.

Phase II begins in early January of the following calendar year, continues through the entire second year and concludes the following spring (18 months) with a summer break after the first two blocks of Phase II are completed. Phase II covers normal function and disease-related aspects of the specific organ systems including the treatment of these diseases, specifically organ-based physiology, organ system/disease-related topics in biochemistry and genetics, pathology, microbiology, immunology, pharmacology and medicine.

Phases III and IV of the curriculum (the third and fourth years of medical school) are when students receive clinical training in several different patient care venues, including Austin, Bryan-College Station, Corpus Christi, Dallas, Houston, Round Rock and Temple.

The curriculum allows for a highly personalized medical education experience from the onset. Students interact one-on-one with basic science teaching faculty, physicians and patients early in the first and second phases of instruction and therefore, use these close interactions to build the skills and confidence necessary for the applied and advanced core principles of medicine in the later phases of their training.
<table>
<thead>
<tr>
<th>Phase I</th>
<th>Phase II</th>
<th>Phase III</th>
<th>Phase IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Principles of Medicine</td>
<td>Integrated Core Principles of Medicine</td>
<td>Applied Core Principles of Medicine</td>
<td>Advanced Applied Core Principles of Medicine</td>
</tr>
<tr>
<td><strong>Core Principles:</strong></td>
<td></td>
<td>Advanced Applied Basic Science in a Clinical Setting:</td>
<td>Advanced Applied Basic Science in a Clinical Setting:</td>
</tr>
<tr>
<td>Gross Anatomy</td>
<td>Normal Physiological State</td>
<td>COM Grand Rounds</td>
<td>COM Grand Rounds</td>
</tr>
<tr>
<td>Histology</td>
<td>Disease Pathology</td>
<td>Interdisciplinary Rounds</td>
<td>Interdisciplinary Rounds</td>
</tr>
<tr>
<td>Basic Cell Biology</td>
<td>Neuroanatomy and Neuroscience Genetic Diseases</td>
<td>Evidence-Based Medicine</td>
<td>Evidence-Based Medicine</td>
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<tr>
<td>Basic Biochemistry</td>
<td>Basic Diagnostic Decision-Making</td>
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<tr>
<td>Basic Pharmacology</td>
<td>Basic Treatment Options</td>
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<tr>
<td>Basic Cell Physiology</td>
<td>Basic Patient Management</td>
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<tr>
<td>Basic Genetics</td>
<td>Evidence-Based Medicine</td>
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<tr>
<td></td>
<td>Basic Microbiology and Immunology</td>
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**USMLE Step 1 Preparation Time**

**USMLE Step 2**

**USMLE Step 3**

**USMLE Step 4**

**Capstone Project Presentation Last Week of Class**

**Clinical Skills I:**
- Working with Patients
- Basic Cardiac Life Support
- Basic Procedural Skills
- Basic Communication Skills

**Clinical Skills II and Preceptorship:**
- Physical Diagnosis
- Introductory Surgical Skills
- Advanced Clinical Diagnosis
- Advanced Cardiac Life Support
- Reproductive System H&P
- Basic Communication Skills

**Clinical Skills III:**
- Advanced Surgical Skills
- Advanced Clinical Diagnosis
- Advanced Patient Mgmt. Skills
- Advanced Communication Skills

**Clinical Skills IV:**
- Specialized Surgical Skills
- Advanced Clinical Diagnosis
- Advanced Patient Mgmt. Skills
- Advanced Communication Skills

* 12 weeks can be completed at another institution (state or nation wide)
Fourth-year students at the College of Medicine annually participate in the National Resident Matching Program (NRMP) each spring. The Match aligns the selection of applicants with the preferences of residency programs in order to fill the thousands of training positions available at U.S. teaching hospitals.

The Match was established in 1952, at the request of medical students to provide a fair and impartial transition from medical school to residency. The NRMP is sponsored by the American Board of Medical Specialties, the American Medical Association, the Association of American Medical Colleges, the American Hospital Association and the Council of Medical Specialty Societies.

The chart outlines residency specialties selected by College of Medicine graduates during the last two years.

<table>
<thead>
<tr>
<th>Residency</th>
<th>2011</th>
<th>2010</th>
</tr>
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**Total:** 100 79

Preliminary—offered in internal medicine and other non-internal medicine specialties, such as general surgery, dermatology, radiology, anesthesiology, neurology, ophthalmology, radiation oncology and physical medicine and provides a solid foundation for further training in one of these specialties.

Transitional—typically a one-year program focused on broad-based general medicine training to define interests and to better prepare for a future subspecialty.
Notice of Nondiscriminatory Policy

The Texas A&M University System Health Science Center complies with Section 504 in its admissions, accessibility, treatment and employment of students in its programs and activities. The HSC provides academic adjustments and auxiliary aids to students with disabilities, as defined under the law, who are otherwise qualified to meet the institution’s academic requirements. The designated 504 Coordinator for The Texas A&M University System Health Science Center responsible for equal opportunity/affirmative action matters is the Human Resources Department at 979-458-7280.