TEXAS TECH UNIVERSITY
HEALTH SCIENCES CENTER
Paul L. Foster School of Medicine
CATALOG
2012 - 2013
The Texas Tech University Health Sciences Center is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate, masters, doctoral, and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of the Texas Tech University Health Sciences Center.

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The provisions of this catalog do not constitute a contract, expressed or implied, between any applicant, student, or faculty member and the Texas Tech University Health Sciences Center Paul L. Foster School of Medicine. The Texas Tech University Health Sciences Center Paul L. Foster School of Medicine reserves the right to change or withdraw courses at any time. It also may change fees, calendar, curriculum, graduation procedures, and any other requirement affecting students. Changes will become effective whenever the proper authorities so determine and will apply to both prospective students and those already enrolled.
STATEMENT OF EQUAL OPPORTUNITY

The Paul L. Foster School of Medicine is committed to a policy of equal opportunity. It will not discriminate on the basis of race, color, sex, age, religion, sexual orientation, national origin or physical handicap.

All inquiries and correspondence concerning admission to the School of Medicine should be addressed to:

Office of Admissions
Paul L. Foster School of Medicine
Texas Tech University Health Sciences Center
5001 El Paso Drive
El Paso, TX 79905
Phone: (915) 783-1250

TEXAS TECH UNIVERSITY SYSTEM
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TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER

PAUL L. FOSTER SCHOOL OF MEDICINE

ADMINISTRATION

Dean ................................................................................................................................. Manuel de la Rosa, MD
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Associate Dean for Clinical Affairs ........................................................................... Michael Romano, MD
Associate Dean for Research ..................................................................................... Charles Miller, PhD
Associate Dean for Faculty Development ................................................................. Hoi Ho, MD
Associate Dean for Admissions and Recruitment .................................................... Manuel Schydlower, MD
Associate Dean for Student Affairs ......................................................................... Kathryn Horn, MD
Associate Dean for Graduate Medical Education .................................................... Armando Meza, MD
Associate Dean for Finance and Administration ....................................................... Frank Stout, PhD
VISION
The Texas Tech University Health Sciences Center Paul L. Foster School of Medicine will promote wellness and relieve human suffering through excellence in health care, intellectual innovation and service beyond borders.

MISSION
The mission of the Texas Tech University Health Sciences Center Paul L. Foster School of Medicine is to provide an outstanding education and development opportunities for a diverse group of students, residents, faculty, and staff; advance knowledge through innovation and research; and serve the needs of our socially and culturally diverse communities and regions.

BACKGROUND and HISTORY
Texas Tech El Paso has played a vital role in El Paso’s healthcare history for over three decades. During that time it has been the academic home to many outstanding medical students, resident physicians, and faculty. The school opened its doors officially in 1973, as the Regional Academic Center in El Paso, providing clinical training to Texas Tech University Health Sciences Center medical students through a teaching affiliation with R.E. Thomason Hospital. In 2001 the El Paso campus received legislative authorization to establish a full four-year medical school and in 2003 and 2005 ground was broken for the construction of state-of-the-art research facilities and a medical education building. In February 2008, the school, now known as the Paul L. Foster School of Medicine, succeeded in being awarded preliminary accreditation by the Liaison Committee on Medical Education (LCME) signifying that its educational programs fully meet the high standards required for admitting its first class of students. That class was seated in July 2009.

Today the Texas Tech University Health Sciences Center Paul L. Foster School of Medicine has close to 1000 faculty and staff and is a flourishing health sciences and medical center. Clinical training sites are provided by University Medical Center (formerly R.E. Thomason Hospital), William Beaumont Army Medical Center, Providence Hospital, and the El Paso Psychiatric Center. Ambulatory experiences are available in affiliated clinics throughout the greater El Paso area, including facilities located in areas that have previously been underserved and lacking in adequate healthcare resources. The Paul L. Foster School of Medicine is committed to providing its students a first rate, clinically based, educational experience that is firmly grounded in the basic sciences and clinical skills that will prepare the new graduate for entry into any medical specialty of his or her choosing. A further goal of the Paul L. Foster School of Medicine is to inculcate the values and attitudes of caring and compassion for the wellbeing of patients and their families with a special emphasis on the unique health care needs of the Texas-Mexico border.

In addition to the four-year curriculum leading to the M.D. degree, the Paul L. Foster School of Medicine provides extensive graduate medical education opportunities in a variety of residency programs including Internal Medicine, Surgery, Family Medicine, Pediatrics, Emergency Medicine, Psychiatry, Obstetrics and Gynecology, Radiology, Anesthesiology, and a Transitional Year program. These programs, like the newly accredited medical school, all meet the exacting standards of the
Accreditation Council for Graduate Medical Education. Students who come to the Paul L. Foster School of Medicine can be assured of training in an environment that will enable them to develop the knowledge and skills necessary to provide the citizens of Texas and the nation with the highest quality of health care.

**OFFICE OF ADMISSIONS**

Paul L. Foster School of Medicine Office of Admissions

Associate Dean for Admissions ................................................................. Manuel Schydowler, MD  
Director of Admissions ....................................................................................... John Snelling, MA  
Assistant Director of Admissions ........................................................................ Vacant  
Lead Advisor/Recruiter ......................................................................................... Yolanda Jauregui, BS  
Unit Coordinator ................................................................................................. Rene Andre, MBA  
Senior Data Analyst ............................................................................................ Laura Olivas, BS  
Administrative Assistant ...................................................................................... Brianna Huffman

**General Philosophy**

Texas Tech University Health Sciences Center Paul L. Foster School of Medicine invites applications from qualified residents of the state of Texas and the adjacent counties of eastern New Mexico and southwestern Oklahoma that comprise the service area of the Texas Tech University Health Sciences Center. Out-of-state residents will be considered on an individual basis. Only 10% of the class can be from out-of-state, therefore, out-of-state applicants should have competitive credentials to apply. Currently 80 students are selected per class, but ultimately there will be 100 students per class. The Admissions Committee carefully examines each application for the personal qualities and proven academic ability to determine potential for becoming an effective and competent physician. If all other qualifications are equal, some preference may be given to West Texas residents. While evidence of high intellectual ability and a strong record of scholastic achievement are vital for success in the study of medicine, the Admissions Committee recognizes the essential role of compassion, motivation, maturity, personal integrity, and the ability to communicate effectively as traits of the consummate physician.

In the screening process, applicants will be evaluated not only on their cognitive merits, but also on non-cognitive or non-academic factors as well. This will include evaluations of their personal statements, letters of recommendation and other life, extracurricular or employment experiences. The interview is specifically designed to focus on non-academic criteria. Interviewers will assess the applicant’s medical experiences, motivation to enter medicine, knowledge of issues in medicine, personal characteristics and problem solving ability.

TTUHSC-Paul L. Foster School of Medicine in El Paso is committed to helping meet the needs of an increasingly diverse population by recruiting a diverse medical school class that exhibits qualities indicative of academic success. The School of Medicine admission guidelines call for no discrimination on the basis of race, sex, age, ethnic origin, religion, sexual orientation or disability. To facilitate diversity, our Admissions Committee will consider factors to determine whether or not an applicant comes from a financially or educationally disadvantaged background, such as the applicant’s status as a first generation college graduate; multilingual proficiency; socioeconomic background while attending elementary/secondary school; responsibilities while attending school, such as employment or assisting in the care of family members; community involvement; and other life circumstances. These
factors will be considered in the selection of candidates, in accordance with recent legislation that allows schools to consider evidence of applicants’ disadvantaged status as part of the total evaluation process.

In summary, a number of both cognitive and non-cognitive factors are used in the evaluation of applicants to medical school. No single factor is used exclusively to admit or to eliminate admission of an applicant to medical school at Texas Tech. Each applicant is examined for overall suitability. The Admissions Committee makes an effort to select a class with varied backgrounds, interests, and life experiences so that there is a stimulating and broadening learning environment for the medical curriculum.

Undergraduate Course Requirements

A baccalaureate degree is required, and at least three years of study (90 semester hours or the equivalent in quarter hours) from an accredited United States or Canadian college or university must be completed before the individual applies for admission.

Course work from non-U.S. or Canadian schools will be accepted only if it appears, with a grade, on the transcript of a U.S. or Canadian college or university as an individual course. All prerequisite courses for medical school must have been taken for credit at an accredited U.S. or Canadian college or university.

Specific course requirements have been kept at a minimum to allow and encourage the student to have a broad and well-rounded education. There are no specific requirements for undergraduate majors. The Admissions Committee reviews the academic challenge provided by course selection and gives preference to students with a broad educational background.

Admission Requirements

Successful applicants for admission to the Paul L. Foster School of Medicine at Texas Tech University Health Sciences Center at El Paso (PLFSOM) must have completed an undergraduate curriculum and must have been awarded a baccalaureate degree or its equivalent before matriculation. Ninety semester hours, including all prerequisite courses must have been completed at a U.S. or Canadian accredited college or university.
The Prerequisite Courses Are:

<table>
<thead>
<tr>
<th>COURSES</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>12 semester hours</td>
</tr>
<tr>
<td>Biology laboratories</td>
<td>2 semester hours</td>
</tr>
<tr>
<td>General chemistry with laboratories</td>
<td>8 semester hours</td>
</tr>
<tr>
<td>Organic chemistry with laboratories</td>
<td>8 semester hours</td>
</tr>
<tr>
<td>Physics with laboratories</td>
<td>8 semester hours</td>
</tr>
<tr>
<td>Calculus or statistics</td>
<td>3 semester hours</td>
</tr>
<tr>
<td>English</td>
<td>6 semester hours</td>
</tr>
</tbody>
</table>

Grades of C or better are required for all prerequisite courses or AP credit.

Successful applicants also should have pursued a broad educational experience, including topics outside of chemistry, biology, physics and mathematics. Although PLFSOM will have no prescribed course of study beyond the required courses identified above, the Admissions Committee will consider the breadth of the candidate’s educational experience in their determination of admission. Additional recommended courses include the following:

Humanities, Social Sciences, or Behavioral Sciences: 12 semester hours.

Coursework in Biochemistry, Biostatistics, and Genetics, Cellular/Molecular Biology is also encouraged. Competence in spoken and written English will be necessary. A facility in conversational Spanish will be an advantage for students intending to remain in the Southwest.

Medical College Admissions Test (MCAT)

The MCAT is also a requirement for admission. The applicant’s best score from the last five years will be considered. Information about the MCAT and registration for the exam can be accessed at http://aamc.org/students/mcat/.

APPLICATION PROCESS

Applications for admission will be processed through the Texas Medical and Dental Schools Application Service (TMDSAS). Application forms and procedural information are available on the TMDSAS website at http://www.utsystem.edu/tmdsas. TMDSAS will notify applicants when their applications have been sent to the school.

Applications will be reviewed for completeness. In addition, applications will be reviewed for adherence to the admissions requirements established by the school. Those candidates whose files are complete and who are considered to be competitive for admission, based on the admissions criteria established by the school, will be invited to interview. These criteria include scores from the MCAT; academic performance as reflected by the science GPA and overall GPA; rigor of the undergraduate curriculum, including course selection, extracurricular activities (medical and non-medical), and employment and their impact on performance and maturation; recommendations from premedical advisors or faculty; socioeconomic and disadvantaged background; personal statement and its reflection of communication skills, personal qualities, leadership, maturity, determination, and motivation for a career in medicine; regional origin.
Candidates who are selected for interview will be invited for a full day of orientation to the school and interviews. The interview is designed to evaluate their interest and knowledge of the health care field and motivation for a medical career; personal characteristics; and problem-solving skills. The interview can also address questions by the candidate that may have arisen during the application process. These interview sessions will be conducted weekly from early August to the middle of January. All successful candidates must participate in the interview process.

Following each interview session, the Admissions Committee will review the credentials and interview evaluations for each of the candidates and will make decisions for or against admission. The decisions of the Admissions Committee are final. Based upon these decisions, a list of acceptable candidates will be prepared ranking those judged to be best qualified for the study and practice of medicine. Following TMDSAS guidelines, we will make offers to superior candidates between November 16 and December 31. All other candidates will be offered positions through the TMDSAS matching process. All candidates, whether holding an offer or not, must submit preferences to the TMDSAS match by January 10. Match results are announced on February 1. A rolling admissions process will then be used to fill remaining positions.

Students who are accepted for admission will receive a packet of information during the summer before their matriculation. This packet will contain information about the community of El Paso and the school, including lists of books and materials required, class schedules, housing opportunities, and contact information. Additionally, the packet will include information and forms regarding various requirements that the students will need to complete before matriculation, such as acknowledgement of the standards for curricular completion, immunization forms, documentation of health insurance, documentation of a pre-entry physical examination, and a criminal background check.

The TTUHSC Registrar is the custodian of criminal background checks. All reports indicating a criminal record are forwarded to the Associate Dean for Student Affairs for review by a committee consisting of him/herself, the Associate Dean for Admissions, and the Director of Student Affairs. This review will determine if the violations would preclude the student from training in the clinical affiliates based on exclusion lists provided by these institutions.

**Admissions Policies for Non-Residents of Texas**

Non-resident applicants to the participating TMDSAS Texas schools are not subject to the Texas Match. Acceptance of non-resident, interviewed applicants begins on October 15. Texas Tech University Paul L. Foster School of Medicine is a Texas state school and is required by law to have 90% of the entering class made up of qualified Texas residents. Residency is determined according to the Texas Higher Education Coordinating Board Rules and Regulations for Determining Residency. Residency information is available on the TMDSAS website. TMDSAS will make an initial determination of each applicant’s residency status.
APPLICATIONS

Please submit your application on line through TMDSAS
http://www.utsystem.edu/tmdsas
Texas Medical and Dental Schools Application Service
702 Colorado, Suite 6400
Austin, Texas 78701

The Paul L. Foster School of Medicine does not require a secondary application.

Qualified applicants will be invited to interview.

Application Timeline

Filing of Applications
Earliest Date: May 1
Latest Date: October 1

Interview Period
August – January
Interviews are conducted on Thursdays during this period.

Acceptance Notice
Pre-Match Open Acceptance Period:
November 15 – December 31

Texas Match
Applicants will rank all schools where they have interviewed regardless of whether or not they are holding a pre-match offer.

Applicant preference list due to TMDSAS: January 10
Applicant Match Day: February 1

There are 80 seats in the class. Any seats that become open after the match will be filled from the alternate list.

Immunizations, Health Insurance, and Disability Insurance

The Association of American Medical Colleges states that all students should be immunized against a number of infectious diseases for their own safety and the safety of others. All matriculating students must be compliant with the school’s immunization requirements in order to register for classes.

Students will be required to be up to date on their immunizations and provide documentation of immunization against tetanus, diphtheria, pertussis, measles, mumps, rubella, hepatitis A and B, and meningitis. Because of the school’s location on the border and requirement by the principal teaching hospital, students must also demonstrate serologic protective titers against varicella, rubella and rubeola. A tuberculin or equivalent test will also be required in the six-month period prior to beginning the
curriculum and annually thereafter. A chest radiograph will be accepted only if the student is known to be skin-test positive.

Students are expected to have health insurance coverage for each semester enrolled. Students should be prepared to provide proof of coverage at the time of registration. The Office of Student Affairs will make available information on student health insurance providers for all registered students of the School of Medicine. Students may investigate other insurance plans or be enrolled in a parent's or spouse's plan.

Each student is assessed a fee of $40.00 per year to purchase long-term disability insurance. The amount of coverage is negotiated annually. Additional disability insurance may be purchased by the student if desired.

**Special Considerations**

1. Deferment of Matriculation

   Under extenuating circumstances, an applicant who has been accepted for enrollment in the fall may request, in writing, deferment until the following fall. Such request will be considered by the Associate Dean for Admissions and may be granted for a period not to exceed one year. During the year of deferment, the student may not make application to any other medical school. PLFSOM scholarships do not carry over if the student is deferred.

2. Application for Admission in Advanced Standing

   Applications will be accepted for transfer into the third year only. Texas residents enrolled in good standing in LCME accredited medical school are preferred; non-residents will be considered on a space available basis. Applicants for advanced standing must have written permission from their Dean of Student Affairs and must have passed Step 1 of the United States Medical Licensing Examination (USMLE 1) as conditions for acceptance. Additionally, transfer candidates may be interviewed before acceptance.

   The school does not anticipate acceptance of transfer applications from students or graduates of schools not accredited by the Liaison Committee on Medical Education. Full details of the advanced standing application process can be found at: [http://www.ttuhs.edu/fostersom/admissions/advancedstandingadmissionapplication.aspx/](http://www.ttuhs.edu/fostersom/admissions/advancedstandingadmissionapplication.aspx/)

**Academic Scholarships**

The Paul L. Foster School of Medicine offers a number of competitive academic scholarships. The scholarships are based on merit as determined by the Paul L. Foster School of Medicine Scholarship Committee. Many scholarships do not require an application, are based on a merit rank order list derived from decisions by the Admissions Committee and are awarded prior to matriculation. These scholarships are renewable for up to four years contingent on successful advancement to the next year of medical studies. Numbers of scholarships and award amounts may vary.
OFFICE OF STUDENT AFFAIRS

Paul L. Foster School of Medicine Office of Student Affairs

Associate Dean for Student Affairs .......................................................... Kathryn V. Horn, MD
Director of Student Affairs ................................................................. Alex Garcia
Director of Academic Support ............................................................. Tammy T. Salazar, PhD
Unit Manager ...................................................................................... Diana Andrade

Mission Statement

The mission of the Office of Student Affairs is to provide academic support and career guidance for medical students, and to do so in a supportive environment that enables students to have a positive experience at the Paul L. Foster School of Medicine. The goal of the office is for every medical student to be successful and to develop professional skills and personal relationships that will last a lifetime. The Office of Student Affairs serves as the advocate for students in their academic, career, and personal life.

CODE OF PROFESSIONAL CONDUCT/HONOR SYSTEM

By registration in the Paul L. Foster School of Medicine, each student subscribes to the Code of Professional and Academic Conduct that was originally developed and approved conjointly by Texas Tech School of Medicine students and faculty in 1985. The code is compatible with the regulations of the University, but is designed expressly for the Schools of Medicine. The purpose of the Code of Professional and Academic Conduct is to emphasize in the medical school environment those qualities of integrity, self-discipline, and professional behavior that are essential to physicians. The Code protects the rights of the student who may be reported for academic dishonesty or for non-professional conduct. If charges are deemed valid, there is a hearing before a student-faculty committee who recommends to the Dean appropriate action. There is an appeal procedure to ensure due process and the Dean makes a final decision based on the hearings and committee recommendations. A student handbook that includes the detailed Codes, as well as other relevant policies and procedures, is given to each student at matriculation. They are available in the Office of Student Affairs and are posted on the school web site.

STANDARDS FOR ENTRY AND CURRICULAR COMPLETION

The School of Medicine faculty has developed minimum standards for entry into and progression through the medical curriculum. These standards provide guidance to achieve the Doctor of Medicine degree in preparation for licensure as a practicing physician and for postgraduate training. Throughout the medical education process, patient safety is of primary consideration.

The School of Medicine recognizes that certain disabilities can be accommodated without compromising the standards required by the school or the fundamental integrity of its curriculum. The
school is committed to the development of innovative and creative ways of opening its curriculum to competitive and qualified disabled candidates.

**Background:**

In 1979, the Association of American Medical Colleges (AAMC) convened a Special Advisory Panel on Technical Standards for Medical School Admission. The summary recommendations of that panel are:

The medical education process, which focuses so largely on patients, differs markedly from postsecondary education in fields outside the health sciences.

The primary responsibility for the selection of students and for the content of the curriculum rests with the medical school and its faculty.

The M.D. degree is, and must remain, a broad and undifferentiated degree attesting to the acquisition of general knowledge in all fields of medicine and the basic skills requisite for the practice of medicine.

The guidelines for the admission of students and for the education of students as set forth by the Liaison Committee on Medical Education (LCME) must continue to govern the decisions of medical school faculties.

All students of medicine must possess those intellectual, ethical, physical and emotional capabilities required to undertake the full curriculum and to achieve the levels of competence required by the faculty.

Although certain disabilities or combinations of disabilities will prevent some candidates from meeting these minimum technical standards, individual schools should take all necessary steps to prevent discrimination against the disabled.

The 1979 report was based on the proposition that the educational objective of a medical school was to prepare undifferentiated students to enter graduate medical training, and that students admitted to a medical school should have the intellectual and physical powers to gain the knowledge, behaviors, and clinical abilities that they would need to pursue any pathway of graduate medical education. These assumptions took note of the increasing involvement with patients during medical training and reflected concern for the safe care that students must render.
**Preparation of the Physician:**
The education of a physician includes the following phases:

- A preparatory phase with at least 90 hours of credit in an accredited U.S. or Canadian college;
- A rigorous professional education leading to the M.D. degree;
- Postgraduate (residency) training; and
- Lifelong continuing education after completion of residency training

Unlike most professions, Medicine awards its formal degree midway through the education process, and the awarding of the degree certifies that the student has acquired a broad base of general knowledge and skills requisite for further training in postgraduate work. The process whereby the degree is gained prepares an individual to be a physician rather than a surgeon, psychiatrist, or other specialist. A common body of knowledge, skills, and behaviors thus underlies and is necessary for entry into specialized postgraduate training programs.

**Standards for Accreditation of a Medical School:**

The following information is excerpted from the Functions and Structure of a Medical School published by the Liaison Committee on Medical Education. This body is a joint committee constituted by the American Medical Association and the Association of American Medical Colleges. The Liaison Committee is the official accrediting body for American and Canadian medical schools. A complete copy of the guidelines for accreditation may be found in the Office of Student Affairs.

Medical education requires that the accumulation of scientific knowledge must be accompanied by the simultaneous acquisition of skills and professional attitudes and behaviors. It is in the care of patients that the physician learns the application of scientific knowledge and skills.

It is impossible to consider changes in medical education without considering their impact on patients, who are an integral part of the educational process. Faculties of schools of medicine have immediate responsibility to society to graduate the best possible physician. Admissions standards for medical school must be rigorous and exacting, and admissions must be extended only to those who are qualified to meet the performance standards of the profession.

**Development of Medical Curriculum:**

The medical faculty is charged to devise a curriculum that allows the student to learn the fundamental principles of medicine, to acquire skills of critical judgment based on evidence and experience, and to develop an ability to use principles and skills wisely in solving problems of health and disease. In designing the curriculum, the faculty must introduce current advances in the basic and clinical sciences, including therapy and technology, changes in the understanding of disease, and the effect of social needs and demands on medical care. The faculty should foster in students the ability to learn through self-directed, independent study throughout their professional lives.
Finally, the faculty of each discipline should set the standards of achievement by all students in the study of that discipline. Examination should measure cognitive learning, mastery of basic clinical skills, the ability to use data in realistic problem solving, and respect for the rights and dignity of patients. Institutions must develop a system of assessment which assures that students have acquired and can demonstrate on direct observation the core clinical skills and behaviors needed in subsequent medical training.

**Abilities and Skills Requisite for Medical School Completion:**

In the selection of students and in their progress through the curriculum, medical school faculty is guided by LCME standards. The faculty place strong emphasis on the academic achievements of applicants, including performance in the sciences relevant to medicine. This includes evidence of satisfactory scholastic achievement as indicated by grade point averages (GPA) and scores on the Medical College Admissions Test (MCAT). Breadth of education and life experience are deemed important in the selection process.

The faculty is equally cognizant of their responsibilities to patients who will be a part of the educational process and to future patients who will entrust their welfare and lives to medical school graduates. They therefore consider carefully the personal and emotional characteristics, motivation, industry, maturity, resourcefulness, and personal health appropriate to the effective physician.

Because the M.D. degree signifies that the holder is a physician prepared for entry into the practice of medicine within postgraduate training programs, it follows that graduates must acquire a foundation of knowledge in the basic and in the clinical sciences that will permit the pursuit of any of the several careers that medicine offers.

Candidates for the M.D. degree must have somatic sensation and the functional use of the senses of vision and hearing. Candidates' diagnostic skills will also be lessened without the functional use of the senses of equilibrium, smell, and taste. Additionally, they must have sufficient exteroceptive sense (touch, pain, and temperature), sufficient proprioceptive senses (position, pressure, movement, stereognosis and vibratory) and sufficient motor function to permit them to carry out the activities described in the sections which follow. They must be able consistently, quickly, and accurately to integrate all information received by whatever sense(s) employed, and they must have the intellectual ability to learn, integrate, analyze and synthesize data.

A candidate for the M.D. degree must have abilities and skills in six essential areas: (1) observation, (2) communication, (3) motor, (4) conceptual, integrative and quantitative, (5) behavioral and social, and (6) ethical. Technological compensation can be made for disabilities in certain of these areas; but a candidate should be able to perform in a reasonably independent manner. The use of a trained intermediary to observe or interpret information or to perform procedures is deemed to compromise the essential function of the physician and may jeopardize the safety of the patient. The six areas of abilities/skills are detailed as follows:
**Observation**: The candidate must be able to observe demonstrations and experiments in the basic sciences. A candidate must be able to observe a patient accurately at a distance and close at hand. Observation necessitates the functional use of the sense of vision and somatic sensation. It is enhanced by the functional use of the sense of smell.

**Communication**: A candidate should be able to speak; to hear; and to observe patients in order to elicit information, to describe changes in mood, activity and posture; and to perceive non-verbal communications. A candidate must be able to communicate effectively with patients. Communication includes not only speech but reading and writing. The candidate must be able to communicate effectively and efficiently in oral and written form with patients and with all members of the health care team.

**Motor**: Candidates should have sufficient motor functions to elicit information from patients by palpation, auscultation, percussion, and other diagnostic maneuvers. A candidate should be able to execute motor movements reasonably required to provide general care and emergency treatment to patients. Examples of emergency treatment reasonably required of physicians are cardiopulmonary resuscitation, administration of intravenous medication, application of pressure to stop bleeding, opening of obstructed airways, suturing of simple wounds, and performance of simple obstetrical maneuvers. Such actions require coordination of both gross and fine muscular movements, equilibrium and functional use of the senses of touch and vision.

**Intellectual-Conceptual, Integrative and Quantitative Abilities**: These abilities include measurement, calculation, reasoning, analysis, and synthesis. Problem solving, the clinical skills demanded of physicians, requires all of these intellectual abilities. In addition, the candidate should be able to comprehend three-dimensional relationships and to understand the spatial relationships of structures. In recent years, certain learning disabilities have been recognized as a subset of integrative patterns. The details for definition and diagnosis of learning disabilities follow these Standards for Curricular Completion.

**Behavioral and Social Attributes**: A candidate must possess the emotional health required for full utilization of his/her intellectual abilities; the exercise of good judgment; the prompt completion of all responsibilities attendant to the diagnosis and care of patients; and the development of mature, sensitive, and effective relationships with patients. Candidates must be able to tolerate physically taxing workloads and to function effectively under stress. They must be able to adapt to changing environments, to display flexibility and to learn to function in the face of uncertainties and ambiguities inherent in the clinical problems of many patients. Compassion, integrity, concern for others, interpersonal skills, interest and motivation are all personal qualities that should be assessed during the admissions and education process.

**Ethical Standards**: A candidate must demonstrate professional demeanor and behavior, and must perform in an ethical manner in all dealings with peers, faculty, staff and patients. Questions of breach of ethical conduct will be referred to the Student Affairs Committee for resolution under the Code of Professional and Academic Conduct.
Evaluation and Accommodation

In determining the minimum standards for completion of the medical school curriculum, the Paul L. Foster School of Medicine recognizes that certain disabilities, as that term is defined in the Americans with Disabilities Act, can be accommodated without compromising the standards required by the school or the fundamental integrity of the curriculum. The school is committed to development of innovative and creative ways of opening the curriculum to competitive and qualified disabled candidates. At the same time, the school recognizes the essential need to preserve the standards and integrity of curriculum requisite for the competent and effective physician. Since the treatment of patients is an essential part of the educational program, the health and safety of those patients must be protected at all costs. Therefore, it is not only reasonable but essential for good patient care to require minimum standards for the education of physicians. The use of a trained intermediary to observe or interpret information is considered to compromise the essential function of the physician.

If a student is offered and accepts an admissions offer from the School of Medicine, the student must then sign a form acknowledging that he/she has read and understands that the Standards for Curricular Completion must be met with or without accommodation.

To Apply for Accommodations:

In order to request accommodations, a student must submit an application along with supporting documentation about the disability from an appropriate specialist and the proposed accommodation(s) being requested in writing to the TTUHSC ADA Compliance Officer in the HSC Office of Student Services in Lubbock. Information and the application can be found on the Student Services website [http://www.ttuhsc.edu/studentservices/ada/](http://www.ttuhsc.edu/studentservices/ada/). The documentation about the disability must be current (from the last 2 years). The deadline for requests with supporting documentation is normally 30 days prior to the beginning of the first semester of enrollment. All applications for accommodations must be renewed every year.

The decision on whether or not an accommodation request will be granted will be made by the ADA Compliance Officer and faculty members who are knowledgeable regarding the area of disability. The School may also seek independent review from a specialist of its choice. Once a decision to grant accommodations is made, an official memo of the decision along with copies of the request and documentation will then be forwarded to the Paul L. Foster School of Medicine Office of Student Affairs. The Student Affairs Committee will meet and determine how the accommodations will be implemented in the curriculum and the student will receive an official memo of the committee’s decision. Such decisions are subject to review and approval by the Dean.

If reasonable accommodation is feasible, effort will be made to provide the accommodation as classes begin. If the request for accommodations occurs during the school year, every effort will be made to expedite the process before the next testing event. If the request for accommodation is denied, the student will be notified in writing.
The Faculty through Promotions Policy has determined that students will be expected to complete the curriculum within four years from the time of initial matriculation and take all designated courses as appropriate for that stage of the curriculum. Exceptions to the requirement that students take all designated courses as appropriate for that stage of the curriculum may be sought and processed as other requests for accommodation, as noted above. Such a request will be based on 1) a specific disability certified by a qualified professional and accompanied by a specific recommendation for accommodation, i.e., a decompressed curriculum based on such a disability and 2) a written request from the matriculant for such an accommodation based on that disability. As noted above, while students will be expected to complete the curriculum in four years, such as an accommodation will not invalidate the requirement that a student must complete all curricular requirements in no more than six years from the time of initial matriculation.

In the area of learning disabilities, the student should note that he/she will have to petition the National Board of Medical Examiners for any accommodation on the United States Medical Licensing Examinations (Steps I, II, and III) and that this process is in addition to and separate from any request for accommodation by the Paul L. Foster School of Medicine.

Criteria for Diagnosis of Learning Disability

Definition:
A learning disability (as defined by the Rehabilitation Services Administration, RSA PPD-85-1, 1985, p.2) is, "A disorder in one or more of the central nervous system processes involved in perceiving, understanding, and/or using concepts through verbal (spoken) or written language or nonverbal means." The term learning disabilities is used to refer to a heterogeneous group of disorders characterized by significant difficulties in spelling, reading, expressing ideas in writing, or solving mathematical problems. They are presumed to be due to a dysfunction in the central nervous system and can occur across the life span. While difficulties with social and behavioral problems may co-exist with learning disabilities, they do not constitute a learning disability in themselves.

Guidelines:
The Ad Hoc Committee on Learning Disabilities of the Association of American Medical Colleges (AAMC) has promulgated guidelines for the assessment of learning disabilities and these are used as a basis for the guidelines at the Paul L. Foster School of Medicine.
A. **Comprehensive Assessment** - A comprehensive assessment must have been done within the last two years. A qualified professional, e.g., a licensed psychologist, a learning disabilities diagnostician, an educational psychologist, with experience in assessing adults must conduct the assessment.

The assessment must address the areas of aptitude, achievement, and information processing.

The assessment must provide clear and specific evidence and identification of a learning disability. "Learning styles" and "learning differences" do not constitute a learning disability.

Information regarding vocational interests and aptitudes may be included.

Students are responsible for the costs of any and all testing done with regard to learning disabilities.

The following tests are considered acceptable:

- **Aptitude.** A complete intellectual assessment with all subtests and standard scores reported. The Wechsler Adult Intelligence Scale-Revised (WAIS-R) with subtest scores or the WAIS-III is the highly preferred instrument. Also acceptable are the Woodcock-Johnson Psychoeducational Battery-Revised: Tests of Cognitive Ability, the Kaufman Adolescent and Adult Intelligence test and the Stanford-Binet Intelligence Scale-Fourth Edition.

- **Achievement.** A comprehensive academic achievement battery is essential with all subtests and standard scores reported for those subtests administered. Levels of functioning in reading, mathematics, and written language are required. Acceptable instruments include:
  - Woodcock-Johnson Psychoeducational Battery-Revised: Tests of Achievement
  - Weschler Individual Achievement Test (WAIT)
  - Stanford Test of Academic Skills (TASK)
  - Scholastic Abilities Test of Adults (SATA)

Or specific achievement tests such as:
  - Woodcock Reading Mastery Tests-Revised
  - Test of Written Language-3 (TOWL-3)
  - Stanford Diagnostic Mathematics Test.

The Wide Range Achievement Test-Revised is not acceptable.

- **Information Processing.** Specific areas of information processing (i.e., short- and long-term memory, sequential memory, auditory and visual perception and processing, processing speed, executive functioning and motor ability) should be addressed. Preferred instruments include the Detroit Tests of Learning Aptitude (DTLA-3), the Detroit tests of Learning Aptitude – Adult (DTLA-A), information from subtests on WAIS-R or the Woodcock-Johnson Psychoeducational Battery – Revised: Tests of Cognitive Ability.

All reports must contain the following information:

- The name, degree, title, address, and telephone number of the assessor;
- Information on the professional credential of the evaluator and the areas in which the individual specializes;
- The date of the assessment;
The names and results of the tests (i.e., scores); standard scores and/or percentiles should be provided and interpreted for all normed measures.

- The nature and effect of the learning disability;
- An appraisal of the student's academic strengths and weaknesses;
- Recommendations for strategies and accommodations.

Students who claim learning disability must review the guidelines with the professional who does the assessment.

The diagnosis for learning disability must confirm less than expected academic functioning as demonstrated by a converted score of 15 or more points less than a full scale IQ on individually administered standardized achievement tests.

A history of substantial long-term functional impairment must be present.

**STUDENT LIFE AND SERVICES**

The Paul L. Foster School of Medicine is noted for the open friendliness of its student body and faculty. The small size of classes and the college system makes for an enhanced ability to get acquainted with each other. The city of El Paso offers good quality of life for students and student families. The geographic location of the School of Medicine provides a wealth of recreational and cultural experiences both in the city and the surrounding area. Housing is easily available and relatively economical and the semi-arid climate is an agreeable one. Thus, the unstructured "quality of student life" is generally a good one. There are a number of organizations and resources that are designed to facilitate the ability to enjoy and gain from the medical school experience.

**PASE Program – The Office of Student Affairs** houses the Program for Academic Support and Enrichment (PASE), which provides services that are designed to help each student succeed from their first year to their last. It offers many resources to students that will help them maximize their academic potential and learn more efficiently and effectively. Features of the program include: individual assistance in identifying and improving areas such as studying, reading, test-taking, time management, and stress management; group workshops; individualized study plans based on learning preferences, workshops on USMLE Step preparation, and residency interview preparation. The PASE Program also houses the PLFSOM Tutoring Center which offers peer tutoring to students in several different areas. Services are free for students. The PASE Program is run by the Director of Academic Support and is available to all students – from those who are having trouble to students who just want to brush up on a particular skill or improve their existing study habits. For more information, refer to the Student Handbook as well as the Student Affairs website at [http://www.ttuhsc.edu/som/studentaffairs/](http://www.ttuhsc.edu/som/studentaffairs/).

**The Office of the Registrar** is located in the Health Sciences Center in Lubbock and serves as custodian of the students' permanent academic records. The Registrar's Office is also responsible for registration, grade reports, transcript requests, enrollment and veteran certification. The Registrar's Office is easily accessed via the internet, by phone or through the Student Affairs office in El Paso.

**The Office of Financial Aid** serves students desiring financial assistance or information regarding loans and scholarships. A Liaison Financial Aid Officer is stationed at the Paul L. Foster School of Medicine and is located in the Office of Student Affairs. The Texas Tech University Health Sciences
Center Office of Student Financial Aid is committed to working with each student in identifying financial resources to meet their financial needs to pursue their medical education.

Financial Aid is available to School of Medicine students in different forms. Funds that do not require repayment consist of Federal and State Grant funds and Scholarships from state, local and private funds. Funds that must be repaid consist of Federal, State, Local and Private Loan Funds. Financial aid is available for tuition, fees, books and supplies and living expenses for each academic year.

These funds are offered to students on the basis of financial need and other qualifications as specified by the Department of Education and the donor organizations.

Financial need is defined as the difference between the anticipated costs of attending the school and the amount of money available to the student from all sources. A needs analysis calculation is required of applicants for most financial aid programs.

The Paul L. Foster School of Medicine offers several types of scholarships which are awarded based on various factors. These include, but are not limited to, financial need, academic achievement, class standing, and areas of specialization.

No student or prospective student shall be excluded for participation in or be denied the benefits of any financial aid program on the basis of race, color, national origin, religion or sex.

Students seeking financial aid or additional information should contact:
  Diana Andrade, Unit Manager
  The Office of Student Affairs, TTUHSC PLFSOM 5001 El Paso Drive, El Paso 79905
  Phone: (915) 783-5130 ext. 274
  E-mail: diana.andrade@ttuhsc.edu
  There are additional financial aid resources at www.ttuhsc.edu/fostersom/studentaffairs/finaid/asp

For more information contact:

  The Office of Student Services, Registrar and Financial Aid
  Texas Tech University Health Sciences Center
  3601 4th Street, Room 3B310, MS 8310
  Lubbock, Texas 79430
  Phone: (806) 743-2300 Fax: (806) 743-3027

**Housing** - The School of Medicine does not furnish living quarters for its students. Each student makes his/her own arrangements. All students live in apartments or houses in the community. The Office of Student Affairs can provide information on available housing.
THE DOCTOR OF MEDICINE PROGRAM

Undergraduate Medical Education

The goal of the School of Medicine is to provide students with a broad base of knowledge in the basic and clinical sciences, so that each graduate is well prepared to enter any field of postgraduate medical training. The students will be exposed to an integrative curriculum that is interdisciplinary in the basic sciences and the clinical sciences.

To achieve these objectives, the curriculum is continually reviewed and appropriately modified to ensure the personal and professional growth of future physicians. The School of Medicine has endorsed the efforts of the Association of American Medical Colleges to examine and modify curricula in order to make education and training relevant to physician practice in the twenty-first century.

There is a firm commitment to the philosophy that the curriculum is the property and responsibility of the faculty rather than the component departments of the school. The Dean selects a Curriculum and Education Policy Committee that represents the faculty and the student body. This committee is charged with overall responsibility for establishing educational leading to high quality and well-balanced medical education programs. The management of the curriculum has been formally endorsed by the Liaison Committee on Medical Education. The Liaison Committee on Medical Education (LCME) represents the Association of American Medical Colleges and the American Medical Association as the national accreditation body for medical schools. In 2010 the Texas Tech University Health Sciences Center Paul L. Foster School of Medicine was accorded provisional accreditation, with full accreditation anticipated in 2013.

The College System

Students receive a variety of support services above and beyond the formal academic program. Upon admission, each student will be assigned to one of four medical student colleges that consist of students from each year of school as well as two college masters. These colleges will serve as the academic home for the student throughout the curriculum. In addition, the college will provide a social center for its members. This system gives students ready access to faculty for assistance and they are actively encouraged to utilize this valuable resource. The College Masters will meet regularly with the Senior Associate Dean for Medical Education, the Associate Dean for Student Affairs, and the Director of Academic Support to report on student performance, to identify students who might benefit from counseling on personal matters or study skills, and to share observations about the implementation of the curriculum.

Library

A new, state-of-the-art facility is located in the Medical Education Building. The new library has over 6,000 square feet of space. In addition, it has a large audiovisual collection of slides, videocassettes, motion pictures and microcomputer software. There are individual study carrels in the library as well as 10 group study rooms adjacent to the library. There is also the Gallo Library, located in the School of Medicine building on Alberta, which contains more than 45,000 total volumes and over 204 journal subscriptions.
The library is completely automated with an integrated system, the Library Information System (LIS) which includes an on-line catalog and circulation. Library patrons have electronic access to over 11,000 electronic journals and 33,000 electronic books through the library home page at http://www.ttuhsc.edu/libraries/. Full Medline, CINAHL, IPA, and Micromedex are also available at the Library home page. Computerized search services with access to over 75 data bases on a variety of health-related subjects are available through the mediation of skilled searchers.

The Library currently manages a teaching-learning center (TLC) which houses the non-print collection. Additionally, the TLC has a variety of microcomputers available for student use. The Teaching-Learning Center also assists students in the learning experience through formal classes as well as individual instruction.

Formal classes in search strategy of bibliography databases are conducted frequently in order to prepare the student to be able to access the vast amount of data available. Other courses in life-long learning, techniques of how to filter bibliographic data and other formal courses are offered through the Library.

**Grading**

Courses are graded on a categorical scale with grades of Pass and Fail in the first two years and Honors, Pass, and Fail in years three and four. The Student Affairs Handbook outlines specific policies on grading and promotions. Decisions on progression through the curriculum are based on review of the cumulative record and on demonstration of professional behavior.

**United States Medical Licensing Examination (USMLE):**

Medical students are required to take Step 1 of the United States Medical Licensing Examination (USMLE) not later than June 30 of their second year. Since the test is a component of application for licensure to practice medicine, the student is required to pay for the examination. Passing USMLE Step 1 is a condition for continuation in year 3 of the curriculum. Students will also be required to take and pass USMLE Step 2 Clinical Skills and Clinical Knowledge prior to graduation. The Student Affairs Handbook has more information on USMLE policies.

**Curriculum Content**

The M.D. degree will be awarded to students who satisfactorily complete all four-year courses, clerkships, and graduation requirements including passing of Steps 1 and 2 (both clinical knowledge and clinical skills components) of the USMLE examination.
Institutional Learning Goals

The Curriculum and Educational Policy Committee has identified the following institutional learning goals that all students will achieve by the time they graduate:

<table>
<thead>
<tr>
<th>Medical knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe the normal structure and function of the human body</td>
</tr>
<tr>
<td>Compare and contrast normal variation and pathological states in the structure and function of the human body</td>
</tr>
<tr>
<td>Describe analytic methods (laboratory, quantitative methods, Evidence-Based medicine principles) and apply them in patient care</td>
</tr>
<tr>
<td>Apply the scientific method for the acquisition of new knowledge, for the critical appraisal of published knowledge, and to problem-solving in the laboratory and patient care</td>
</tr>
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<table>
<thead>
<tr>
<th>Patient Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>Categorize, describe, and use various therapeutic methods in the treatment of illness and disease</td>
</tr>
<tr>
<td>Identify life-threatening conditions that require immediate and specific interventions</td>
</tr>
<tr>
<td>Provide precise, timely and comprehensive patient care that is documented appropriately</td>
</tr>
<tr>
<td>Perform and accurately record findings and observations derived from physical examinations</td>
</tr>
<tr>
<td>Choose appropriate laboratory tests and/or diagnostic procedures and accurately interpret results</td>
</tr>
<tr>
<td>Generate a comprehensive list of diagnostic considerations based on the integration of historical, physical and laboratory findings</td>
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</table>

<table>
<thead>
<tr>
<th>Interpersonal Communication Skills</th>
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</thead>
<tbody>
<tr>
<td>Communicate clearly, respectfully and compassionately with patients, families, colleagues, and members of the health care team</td>
</tr>
<tr>
<td>Collect and record pertinent elements of the clinical history in a concise and accurate manner</td>
</tr>
<tr>
<td>Communicate knowledge, interpretation and recommendations orally and/or in writing to a wide range of professional or lay audience in culturally appropriate ways</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Professionalism</th>
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<tbody>
<tr>
<td>Describe fundamental ethical principles and how they apply in patient care and medical practice</td>
</tr>
<tr>
<td>Recognize and avoid the conflicts of interest that can arise in medical practice</td>
</tr>
<tr>
<td>Display compassion in interactions with all patients regardless of race, gender, ethnicity, sexual orientation, socioeconomic status and disability</td>
</tr>
<tr>
<td>Apply the highest ethical standards in all professional activities</td>
</tr>
<tr>
<td>Demonstrate respect for the beliefs, opinions and privacy of patients, families, and members of the health care team</td>
</tr>
<tr>
<td>Demonstrate scrupulous honesty in all professional matters</td>
</tr>
<tr>
<td>Provide compassionate and culturally appropriate care in all stages of the life cycle</td>
</tr>
<tr>
<td>Preserve patient's dignity in all interactions</td>
</tr>
<tr>
<td>Demonstrate advocacy for the interests and needs of patients</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Practice-Based Learning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use inductive and deductive reasoning as appropriate in the diagnosis and management of disease</td>
</tr>
<tr>
<td>Use epidemiological and bio-statistical methods to analyze and solve clinical problems</td>
</tr>
<tr>
<td>Identify the need to employ self-initiated learning strategies (problem definition, resource identification, critical appraisal) when approaching new challenges, problems, or unfamiliar situations</td>
</tr>
<tr>
<td>Recognize when to take responsibility and when to seek assistance based on one's position, training, and responsibilities</td>
</tr>
<tr>
<td>Demonstrate sophistication in the use of digital resources for patient care, self-education, and the education of patients and their families</td>
</tr>
<tr>
<td>Demonstrate the application of a scheme inductive approach to arrive at a focused differential diagnosis</td>
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<tr>
<td>Demonstrate self-awareness and the skills necessary for lifelong learning</td>
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<thead>
<tr>
<th>Systems-based Practice</th>
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<tbody>
<tr>
<td>Describe the components of social structure (e.g., family, neighborhood, community) and the role each plays in health behavior, disease prevention, and the treatment of illness</td>
</tr>
<tr>
<td>Describe the components of the national health system and its funding and how this system affects individual and community health</td>
</tr>
</tbody>
</table>
Pre-Clerkship Curriculum (years 1-2)

The first two years of the curriculum consists of four required courses: *Scientific Principles of Medicine; Medical Skills; Society, Community, and the Individual;* and the *Masters’ Colloquium*. A description of each of these courses follows.

### Curriculum Overview: Year 1

<table>
<thead>
<tr>
<th>July</th>
<th>Aug</th>
<th>Dec</th>
<th>Jan</th>
<th>May</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI</td>
<td>SPM Unit 1 Health &amp; Disease</td>
<td>SPM Unit 2 Musculo-skeletal/Derm</td>
<td>SPM Unit 3 GI System</td>
<td>SPM Unit 4 Liver and Hematology</td>
</tr>
</tbody>
</table>

**Medical Skills**

**Master’s Colloquium**

**Society, Community and the Individual**

<table>
<thead>
<tr>
<th>SPM</th>
<th>SCI</th>
<th>CEYE</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Scientific Principles of Medicine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Society, Community, and Individual</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Comprehensive End of the Year Exam</td>
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</table>

### Curriculum Overview: Year 2

<table>
<thead>
<tr>
<th>Aug</th>
<th>Dec</th>
<th>Jan</th>
<th>May</th>
<th>June</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Unit 6 CNS/Special Senses</td>
<td>SPM Unit 7 Renal System</td>
<td>SPM Unit 8 Endocrine System</td>
<td>SPM Unit 9 Reproduction System</td>
<td>SPM Unit 10 Mind and Human Development</td>
</tr>
</tbody>
</table>

**Medical Skills**

**Master’s Colloquium**

**Society, Community and the Individual**

OSCE          Objective Structured Clinical Examination

CBSE          Comprehensive Basic Science Examination
The Scientific Principles of Medicine (SPM) is a two year course divided into units. These units are: Health and Disease (6 weeks), Musculoskeletal/Dermatology (7 weeks), Gastrointestinal System (7 weeks), Hematology (7 weeks), Cardiovascular/Pulmonary (10 weeks), Integrated Systems (two weeks), Central Nervous System/Special Senses (6 weeks), Renal System (7 weeks), Endocrine System (7 weeks), Reproduction System (7 weeks), and Mind and Human Development (7 weeks). Each unit is organized around a number of “clinical presentations” representing the various ways a patient might present to the physician (e.g., sore throat, headache, referral for abnormal laboratory findings). The clinical presentation serves as the spring-board for the study of the basic sciences (e.g., anatomy, biochemistry, microbiology, pathology, and pharmacology) needed to understand that presentation. Over a two year period students are exposed to approximately 120 clinical presentations associated with over 3000 individual diagnoses. The Scientific Principles of Medicine course employs a variety of teaching and learning modalities including interactive lectures, small groups, laboratory exercises, team-based leaning and self-directed study.

Medical Skills is a two year course in which students develop the knowledge, attitudes, and skills necessary for the optimal care of the patient. This course addresses communication skills, history taking, physical examination skills, and basic procedural skills. This course is aligned with the units of the Scientific Principles of Medicine course. For example, when students learn about the patient presenting with chest discomfort in the Cardiovascular/Pulmonary unit of SPM, in Medical Skills they learn how to conduct a focused history and physical examination on a patient who presents to the doctor with chest discomfort, enabling them to distinguish between cardiac, pulmonary, and musculoskeletal causes of chest pain. During this period they will also learn to distinguish between normal and abnormal heart sounds and how to administer and interpret ECGs. Training in Medical Skills will take place primarily in a state-of-the-art Clinical Skills and Clinical Simulation Center employing standardized patients, partial task trainers, high tech human body simulators, and virtual reality simulators.

Society, Community, and the Individual (SCI) is a two year long learning experience designed to expose students to population health, public health, the community, and the delivery of health care in the community. SCI is comprised of seven themes that are threaded throughout the first two years: biostatistics, epidemiology, community, family, culture, environmental and occupational health, and finally, Spanish. Given the medical school’s location on the Texas-Mexico border and the fact that over 80% of the population in the El Paso area is of Hispanic origins, familiarity with conversational and medical Spanish is integrated into the curriculum. In addition to language instruction, all students will learn about the Border community and culture through a variety of field experiences and exercises. Through SCI, students will also learn principles of evidence based medicine and they will be given opportunities to participate in service learning projects, and community based research.

The Masters’ Colloquium rounds out the four courses spanning the first two years of the curriculum. In the Masters’ Colloquium students discuss topics related to professionalism, ethics, controversies in medicine, and the “artistry” associated with the practice of medicine. Masters’ Colloquium topics will be linked to the clinical presentations in the Scientific Principles of Medicine course. The Masters’ Colloquium will also provide a venue for students to share community experiences derived from participation in the Society, Community, and Individual course.
The Scholarly Activity and Research Requirement

The Paul L. Foster School of Medicine Scholarly Activity and Research Program provides medical students with an opportunity to design and execute an independent scholarly project or research project under the guidance of an expert faculty mentor. A wide variety of topics and research areas are available in three broad categories, allowing for a project to be tailored to a student’s background and interests: 1) basic, clinical and translational research; 2) epidemiology, community-based, behavior, public and environmental health; and 3) medical humanities, qualitative research and medical education research. This is a 3 credit (pass/fail) mandatory curriculum requirement, with one credit awarded for selection of a mentor and preparation of a Project Plan, one credit for execution of the project itself, and a final credit awarded for a poster summarizing the project presented at an annual student symposium held in the Fall semester. Students can choose between one of two tracks: Track 1 concentrates execution of the project into the summer between the first and second year with a poster presented in the Fall of the second year; whereas Track 2 provides the student more flexibility, allowing execution of the project anytime during the first 3 years followed by a poster presentation at the next student symposium. For both Tracks, selection of a mentor and preparation of a Project Plan is due at the end of the first year. Students in both Tracks have the option of writing an Honors Thesis on their project in the fourth year. This introduction to the methodology and analytic thinking involved with scholarly activity and research is designed to enhance the medical training experience and provide an appreciation for the tight integration between scholarship, research and clinical practice.

<table>
<thead>
<tr>
<th>Year 1 and 2 Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scientific Principles of Medicine I</td>
<td>10</td>
</tr>
<tr>
<td>Scientific Principles of Medicine II</td>
<td>10</td>
</tr>
<tr>
<td>Scientific Principles of Medicine III</td>
<td>10</td>
</tr>
<tr>
<td>Scientific Principles of Medicine IV</td>
<td>10</td>
</tr>
<tr>
<td>Society, Community, and Individual I</td>
<td>4</td>
</tr>
<tr>
<td>Society, Community, and Individual II</td>
<td>4</td>
</tr>
<tr>
<td>Society, Community, and Individual III</td>
<td>4</td>
</tr>
<tr>
<td>Society, Community, and Individual IV</td>
<td>4</td>
</tr>
<tr>
<td>Medical Skills I</td>
<td>2</td>
</tr>
<tr>
<td>Medical Skills II</td>
<td>2</td>
</tr>
<tr>
<td>Medical Skills III</td>
<td>2</td>
</tr>
<tr>
<td>Medical Skills IV</td>
<td>2</td>
</tr>
<tr>
<td>Masters’ Colloquium I</td>
<td>2</td>
</tr>
<tr>
<td>Masters’ Colloquium II</td>
<td>2</td>
</tr>
<tr>
<td>Masters’ Colloquium III</td>
<td>2</td>
</tr>
<tr>
<td>Masters’ Colloquium IV</td>
<td>2</td>
</tr>
<tr>
<td>Scholarly Activity Project I</td>
<td>1</td>
</tr>
<tr>
<td>Scholarly Activity Project II</td>
<td>1</td>
</tr>
<tr>
<td>Scholarly Activity Project III</td>
<td>1</td>
</tr>
</tbody>
</table>
The Clerkship Curriculum (years 3-4)

**Year 3 Curriculum**
In year 3 students participate in the following clerkships: Internal Medicine (10 weeks), Family Medicine (6 weeks), Obstetrics and Gynecology (8 weeks), Pediatrics (8 weeks), Surgery (10 weeks), and Psychiatry (6 weeks). Subspecialty “selective experiences” are built into the third year schedule in two ways: as 2-4 week blocks including both ambulatory and inpatient experiences; and in two 16 week long longitudinal experiences, one half day a week, in ambulatory settings. The Longitudinal selective experiences will be drawn from the disciplines of internal medicine, family medicine, surgery, and psychiatry. During the 16 week period during which students complete the Obstetrics and Gynecology and Pediatrics blocks, a Maternal/Fetal/Neonatal experience substitutes for the longitudinal selective. The clinical presentations addressed in years 1-2 are revisited in the third year with an emphasis on therapeutics and management.

The organization of the third year curriculum is illustrated in the following course schematic.

<table>
<thead>
<tr>
<th>16 Weeks</th>
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<td>Internal Medicine general&lt;br&gt;selective (2 weeks) Psychiatry</td>
<td>Obstetrics-Gynecology Pediatrics</td>
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**Threads:** Geriatrics, Basic Sciences, Ethics, Professionalism, EBM, Patient Safety, Pain Management, Chronic Illness Care, Palliative Care, Quality Improvement, Communication Skills, Diagnostic Imaging, Clinical Pathology, Clinical and Translational Research.

**Year 3 Courses/Clerkships**

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Year 3 Clerkship Descriptions:

Surgery (PSURG 7001) (10 credit hours)
This clerkship exposes students to the pathophysiology of surgical diseases and to the principles and techniques of surgical approaches to the diagnosis and management of diseases. As members of the surgical team consisting of attending physicians and residents, students participate in pre-operative, operative, and post-operative patient care. This clerkship is paired with the discipline of family medicine in an integrated 16 week block, of which 6 weeks focuses on general surgery and 4 weeks is allocated to a surgical subspecialty selective experience (e.g., orthopedic surgery, plastic surgery, and neurosurgery). “Shared” teaching and learning experiences spanning the disciplines of surgery and family medicine are provided to expose students to interdisciplinary approaches to patient care and management.

Family Medicine (PFAM 7001) (8 credit hours)
This clerkship exposes students to the care of the undifferentiated ambulatory patient across the life-span. The emphasis of this clerkship is on the diagnosis and management of common acute problems and the longitudinal management of patients with chronic conditions. Health promotion and prevention are also stressed. This clerkship is paired with the surgery clerkship in a 16 week block, of which 6 weeks is devoted family medicine. In addition, during the 16 week block, students spend one-half day per week in a longitudinal family medicine selective experience designed to give the student opportunities to explore a particular areas within the discipline of family medicine such as chronic disease management, sports medicine, geriatrics, community medicine, or pre-natal care. Students will also have opportunities to participate in a community service activity during the clerkship. Finally, “shared” teaching and learning experiences are provided in both family medicine and surgery (e.g., wound care, pre- and post-operative care, sports medicine, etc.)

Internal Medicine (PINT 7001) (10 credit hours)
In this 10 week experience students participate as members of the ward team performing histories and physical examinations and in the integration and documentation of data derived from laboratory investigation and imaging studies leading to the accurate diagnosis of disease. Students are also exposed to standards of care in the treatment of acute and chronic illnesses of adults. Eight weeks of this experience are devoted to general internal medicine and two weeks are set aside for a subspecialty selective in a variety of areas including cardiology, pulmonology, infectious diseases, and rheumatology. The internal medicine clerkship shares an integrated 16 week block with the psychiatry clerkship. A variety of “shared” teaching and learning opportunities are provided to explore the mental health implications of various diseases and the medical implications of psychiatric disorders.

Psychiatry (PPSY 7001) (8 credit hours)
This clerkship is designed to expose students to the diagnosis and management of common psychiatric illness across the life-span in both ambulatory and in-patient settings. The psychiatry clerkship is paired with the internal medicine clerkship in a 16 week block of which 6 weeks is devoted to experiences in the discipline of psychiatry. In addition, students also participate in a one-half day per week longitudinal selective experience throughout the 16 week block in such areas as child and adolescent psychiatry, sleep medicine, neurology, psychiatric emergency medicine, and consultation-liaison psychiatry. Shared teaching and learning opportunities, including joint medicine-psychiatry rounds, are held to permit students to explore the overlap between the disciplines of medicine and psychiatry.
Obstetrics-Gynecology (POBG 7001) (8 credit hours)
In this 8 week clinical rotation, students participate in the comprehensive care of women and include experiences in pre- and post-natal care, labor and delivery, and the medical and surgical management of diseases in women. In-patient and ambulatory experiences are provided. The OB-GYN clerkship is paired in an integrated 16 week block with pediatrics. These disciplines share a “mother-baby” experience in which students are participate in the care of a pregnant patient, participate in that patient’s delivery, and then follow the care of the infant as part of the pediatric component of the clerkship.

Pediatrics (PPED 7001) (8 credit hours)
This is an 8 week clinical experience that is paired with obstetrics-Gynecology in a 16 week integrated block. Students are exposed to a comprehensive approach to the care of children in the pediatric in-patient, neo-natal, and ambulatory settings. As members of ward teams and working under the supervision of faculty physicians in ambulatory settings, students participate in the evaluation and management of children suffering from a variety of acute and chronic health care problems. Wellness and prevention are also stressed. “Shared” learning opportunities with OB-GYN are provided over the 16 week block including a “mother-baby” experience in which students are assigned to a pregnant patient, participate in the delivery of that patient’s infant and then follows the infant into the pediatric care setting.

Year 4 Curriculum
The fourth year curriculum, consists of four required clerkship experiences—a sub-internship, critical care medicine, emergency medicine, and neurology. During the fourth year students also are provided time for elective experiences (both at home and away) and time to travel to other medical centers to interview for residency positions. Finally, at the close of the fourth year all students will participate in a week-long capstone experience designed to “tie together” the four year medical school experience and to prepare the student for the transition from being a medical student to being a first year resident in the specialty of his/her choice.
Year 4 Clerkship Descriptions:

Emergency Medicine (PEME 8001) (4 credit hours)
This is a required four week clerkship that will be taken in most instances in year 4. In unusual circumstances this clerkship may be taken in year 3 but only with the concurrence of the senior associate dean for medical education and that of the associate dean for student affairs. This clerkship provides students opportunities to participate in the care of undifferentiated acutely ill patients presenting to the emergency department.

Clinical Neurosciences (PNEU 8001) (4 credit hours)
This is a required four week clerkship that will be taken in most instances in year 4. In unusual circumstances this clerkship may be taken in year 3 but only with the concurrence of the senior associate dean for medical education and that of the associate dean for student affairs. This clerkship provides students opportunities to interpret the significance neurological signs and symptoms, perform neurological examinations, recognize neurological diseases, and participate in the treatment of patients with neurological problems.

Critical Care Medicine (PINT 8002, PPED 8002, PPED 8003, PSUR 8002) (4 credit hours)
This is a required 4 week experience in the management of critically ill patients who complex medical problems requiring extensive monitoring and intervention. This experience is only available to students who have completed all required third year clerkships. Students will be assigned to any one of the following critical care units to meet the requirements of this clerkship: medical intensive care, cardiovascular intensive care, pediatric intensive care, surgical intensive care or neonatal intensive care.

Students are also required to complete 1 four week Acting Internship from the following:

Internal Medicine (PINT 8001) (4 credit hours)
This ward-based, primary care sub-internship provides the student an individualized, case-oriented experience as a sub-intern on a general medicine ward service, designed to be the natural extension of the third-year clerkship. Each student will work closely with a senior resident, have primary patient responsibility, take night call with his/her team, have patient care responsibilities like an intern with close supervision by the senior resident, be assigned readings and give mini-lectures on selected subjects, and attend the regularly scheduled teaching conferences of the Department of Internal Medicine. This sub-internship is strongly recommended for students planning to pursue a career in Internal Medicine.

Pediatrics (PPED 8001) (4 credit hours)
The student will work as a member of a team caring for patients admitted to the pediatric inpatient service. During this elective, the student will have an opportunity to learn to formulate problem lists, management, and follow-up plans for hospitalized pediatric patients. The student assumes the role of extern and takes call with the residents.

Surgery (PSUR 8001) (4 credit hours)
The student will serve as an extern on the surgical service and participate in the care of surgical patients in the emergency room, surgical wards, operating room, and clinic. Pre- and post-operative care and the management of patients in the Surgical Intensive Care units will be stressed. Assignments to selected faculty preceptors are also available. Students will take in-house call.
Family Medicine (PFAM 8001) (4 credit hours)
The Acting internship in Family Medicine is a four week rotation on the inpatient service at University Medical Center and weekly continuity clinic at the Family Medicine Clinic. The student will be an integral part of the inpatient team which consists of a family medicine attending, family medicine residents (PGY-1, PGY-2 and PGY-3) a PharmD and the inpatient ancillary staff (nursing, social workers and physical therapy). The student will be exposed to a broad spectrum of acutely ill patients. Student responsibilities include initial evaluation of patients; taking a detailed history and physical, selective of appropriate therapeutics and presentation of the patient to the team and subsequent care during the patient’s hospitalization. This includes family medicine patients admitted to the medicine, pediatric or labor and delivery floors.

Obstetrics and Gynecology (POBG 8001) (4 credit hours)
This elective will further advance the student’s understanding of care of the female patient. It will include ambulatory, hospital, and surgical care of the female patients, from adolescent to the older female patient. Over the course of 4 weeks students will participate on an intern level in the care of obstetrical and gynecological patients.

Capstone Experience (PEDI 8001) (1 credit hour)
This is a 1 week required experience for the graduating medical student. It is designed to provide students an opportunity to review core clinical skills and to address ethical issues, medico-legal issues, and personal issues relevant to the transition from the medical student role to that of first year resident.

Elective Course Descriptions by Department:

PANE 8010 – Anesthesiology Elective
This elective is for students interested in anesthesiology and the insights this discipline gives into the application of physiological and pharmacological principles to the care of patients in acute life-threatening situations. Daily lectures, laboratory demonstration, and the preoperative and postoperative care of patients undergoing anesthesia will enable the student to acquire the basic skills necessary to care for the unconscious and critically ill patient during anesthesia and other similar situations. These skills include airway management, ventilatory support, cardiovascular support, fluid replacement, and intravenous techniques. The student will also have an opportunity to learn the fundamentals of respiratory therapy and its application to patient care. (2 or 4 weeks)

PANE 8100 – Anesthesiology Research:
Students with an interest in research in Anesthesiology will spend time in the departmental research division participating in some phase of a research project (design and development, literature review, data gathering and interpretation, write-up) under the supervision of a faculty member directing the project. (2 or 4 weeks)

PANE 8011 – Senior Anesthesiology Elective
This is a clinical “independent study” elective in which the student, in consultation with the supervising faculty member identifies the topics he/she wishes to address and negotiates elective goals, objectives, and activities with the faculty and the Office of Student Affairs. (2 or 4 weeks)
PANE 8100 – Anesthesiology Research:
Students with an interest in research in Anesthesiology will spend time in the departmental research division participating in some phase of a research project (design and development, literature review, data gathering and interpretation, write-up) under the supervision of a faculty member directing the project. (2 or 4 weeks)

PCBA 8010 – Advanced Gross Anatomy I:
This elective is an in-depth, self-directed review of a selected area of gross anatomy including: head and neck, thorax and abdomen, pelvis and perineum, extremities and back, or anatomical imaging depending on the needs of the student. (2 or 4 weeks)

PCBA 8011 – Surgical Anatomy:
This course is taught by Dr. Elmus Beale and Dr. David McClusky. It is, in essence, a surgery “boot camp”. The course will consist of lecture, cadaver dissection, laparoscopic surgery simulation, and surgical skills. If you are entering a surgical residency and can arrange your schedule to participate in this course, you will be glad you did. The dates of the course are April 8 – 19, 2013. (2 weeks)

PEME 8100 – Emergency Medicine Research:
Students with an interest in research in Emergency Medicine will spend time in the departmental research division participating in some phase of a research project (design and development, literature review, data gathering and interpretation, write-up) under the supervision of a faculty member directing the project. (2 or 4 weeks)

PFAM 8012 – Community Medicine Elective
This elective provides a comprehensive community experience for students and focuses on clinical management and comprehensive primary care in a rural underserved setting. The course affords an opportunity to bring together concepts and experiences developed in Internal Medicine and Family Medicine and to work in a multidiscipline setting with other health care professionals and trainees. Emphasis will be placed on patient care in the ambulatory setting with the student working directly with the faculty preceptor in providing primary care to a wide range of patients. The student will see a multitude of clinical problems that allows the development of strong management skills. (2 or 4 weeks)

PFAM 8014 – Integrative Medicine on the Border Elective:
The Integrative Medicine on the Border Elective will provide the opportunity to focus on complementary and alternative medical practices that are prevalent on the US-Mexico Border throughout experiential learning to enhance the ability to develop culturally sensitive treatment plans for patients of this region. (2 or 4 weeks)

PFAM 8015 – Family Medicine Ysleta Del Sur Pueblo (YDS) Student Elective:
This elective is designed to expand upon the family medicine student rotation and enhance the Family Medicine students’ understanding of community medicine and medicine practices in a unique cultural environment. (2 or 4 weeks)

PFAM 8016 – Clinical Research in Primary Care:
Students interested in clinical research, particularly those considering careers in academic medicine will especially find this elective beneficial. Students will spend time within the research division, participating in an ongoing research project under the guidance of a mentoring research faculty and research associate. (4 weeks)
PIDP 8010 – Biomedical Info. Management Elective:
This elective is designed to provide the student with basic competencies in biomedical information management. The student is primarily taught the basics of searching the biomedical literature via PubMed. Searching EBM Reviews, MICROMEDEX, PDQ, TOXNET, and other biomedical literature databases are addressed as needed. The student is assigned take-home practice exercises to strengthen their literature searching skills. At the end of the rotation, the student is given a brief practical examination of his/her abilities to search these tools.

PINT 8011 – Cardiology Elective:
This ward-based consult service elective consists of daily review of electrocardiograms and echocardiograms, cardiology consultation rounds, Cardiac Care Unit teaching rounds, weekly cardiology teaching conferences, and cardiac catheterization conferences. The student will prepare a review of an assigned topic for the weekly cardiology conferences. Bedside cardiovascular examination and management will be stressed.

PINT 8013 – Gastroenterology Elective:
This elective provides opportunities for learning office practice of gastroenterology including evaluation of patients with peptic ulcer disease, malabsorption, liver disease, etc. Extensive outside reading will be required. The student may be involved in direct patient care in a hospital setting.

PINT 8014 – Infectious Disease Elective:
This ward-based elective offers the student an opportunity to evaluate and care for patients with infectious diseases and to gain an understanding of the clinical microbiology procedures important in the care of these patients. HIV and AIDS will be discussed. Each student will be encouraged to prepare and present one seminar or write a paper on a subject of his/her choice. Time for independent study will be allowed.

PINT 8015 – Oncology/Hematology Elective:
This elective provides exposure to clinical and laboratory diagnosis as well as management of neoplastic and hematologic disorders. Representative case reviews are used to supplement current clinical material where appropriate. Peripheral blood, bone marrow, and tumor morphology are emphasized as well as clinical staging and chemotherapy. There will be exposure as to how new investigational drugs are tried and protocol treatments are given to cancer patients. Students can also obtain concept in bone marrow transplantation including both clinical and laboratory processing of bone marrow cells. Options are available for major focus in ambulatory or ward setting, or both.

PINT 8016 – Nephrology Elective:
This elective offers clinical experience in the diagnosis and management of patients with acute and chronic renal failure, hypertension, fluid and electrolyte imbalances, acid base disturbance, parenchymal renal diseases, etc.

PINT 8019 – Dermatology Clinic:
This elective is designed to expose the student to a wide variety of dermatologic conditions with the expectation that at the conclusion of the experience common disorders will be recognizable. The student will participate in clinics (few inpatient consults) observing a variety of dermatologic disorders and dermatologic procedures in both the adult and pediatric patient population. Also offered is exposure to dermatopathology and dermatologic surgery, thus allowing clinicopathologic correlation.
PINT 8023 – Geriatrics:
This rotation will allow students to learn about the principles of aging and become proficient in the management of certain Geriatrics syndromes.

PINT 8100 – Internal Medicine Research:
Students with an interest in research in Internal Medicine will spend time in the departmental research division participating in some phase of a research project (design and development, literature review, data gathering and interpretation, write-up) under the supervision of a faculty member directing the project.

PNEU 8100 – Neurology Research:
Students with an interest in research in Neurology will spend time in the departmental research division participating in some phase of a research project (design and development, literature review, data gathering and interpretation, write-up) under the supervision of a faculty member directing the project.

POBG 8010 – OB/GYN Senior Rotation:
This elective offers further growth, improvement in skills, and broadening of knowledge in benign gynecologic problems, the performance of gynecologic procedures, and an introduction to office management. The student will participate in the preoperative and postoperative management of patients (both in clinic and in the inpatient setting), in evaluating and treating patients (both in an emergency room and clinic settings), and in gynecologic surgery. Postoperative care will provide an opportunity to learn wound care, respiratory support, rehabilitation, and resolution of postoperative ileus. In surgery, the student will learn suturing, knot tying, wound closure techniques, hysteroscopy, and dilation and curettage. The outpatient clinic training will include clinical medicine, as well as the "business of medicine." Assessment and treatment of vulvar/vaginal infections, STDs, and chronic pelvic pain will be stressed. Endometrial biopsy will be taught. Colposcopy procedures for cervical lesions will be covered. This elective is also applicable to students who plan a career in primary care specialties such as Internal Medicine or Family Medicine. Emphasis will be directed towards developing competency in pelvic examination, obtaining and interpreting Pap smears, diagnosing and treating vaginitis, prescribing hormone replacement therapy, and managing patients on oral contraception. The student will be expected to make rounds with the GYN team daily. Lectures and resident education conferences will be attended as well as discussion with the attending physician and resident physicians of the GYN team of assigned reading topics.

POBG 8011- Maternal Fetal Medicine:
This elective will introduce the student to high-risk obstetrics with specific exposure to the clinical and laboratory diagnosis of medical, surgical, and obstetric complications of the “high-risk” pregnancy. The course is not intended to generate surgical manual skills, but rather cerebral and interpretive knowledge. Emphasis will be placed on ultrasonographic interpretation, invasive fetal testing, and antepartum care of this patient group, both in the clinic and hospital setting. Specific readings will be assigned in the areas of obstetrical anesthesiology, premature labor, and suppression of said labor, induction of labor, metabolic diseases of pregnancy, hypertension and cardiac diseases in pregnancy, etc. Lectures and resident education conferences will be attended as well as discussion with the attending physician and resident physician of the OB team on assigned reading topics. (2 or 4 weeks)

POBG 8012 - Gynecological Oncology/Surgery:
This elective is for students interested in becoming more familiar with gynecologic operations and the multidisciplinary care of women with gynecologic malignancies. Specifically, experience will be obtained in the complex peri-operative and operative management of women with pelvic neoplasms. In
addition, radiation treatment and planning the administration of chemotherapy will be practiced. Emphasis will also be placed on histopathologic diagnosis and correlation. The students will participate in the pre-operative and post-operative management of patients (both clinic and inpatient settings), in evaluating and treating patients (both in an emergency room and clinic setting), and gynecologic surgery. Post-operative care will provide an opportunity to learn wound care, respiratory support, rehabilitation, and resolution of post-operative ileus. The outpatient clinic training will include clinical medicine, as well as the “business of medicine”. Periodic pathology conferences will be attended. Colposcopy procedures for cervical lesions will be covered. The student will be expected to make rounds with the GYN oncology team daily. Lectures and resident education conferences will be attended, as well as discussion with the attending physician and resident physicians of the GYN oncology team on assigned reading topics. (4 weeks)

POBG 8013 - Endocrinology/Infertility:
Students will be given opportunities to participate in the clinical care of patients with reproductive endocrine and infertility disorders and will improve the clinical knowledge base necessary for recognizing the problems of these patients as individuals. Students will be provided both clinical exposure to patients and the laboratory aspects of reproductive endocrine and infertility care and will be exposed to the emotional and psychological problems of the reproductive endocrine/infertility patient. Students will participate in all scheduled surgeries, see private patients with attending physician, consult in resident reproductive endocrinology clinic, learn to do inseminations, ovulation monitoring and induction protocols, participate in hysterosalpingogram, and observe management of in vitro fertilization. Lectures and resident education conferences will be attended as well as discussions with attending physicians and resident physicians of the REI team on assigned topics. (2 or 4 weeks)

POBG 8014 - OB/GYN Research:
This elective is designed to teach medical students selected fundamentals of research, as well as to provide the opportunity to learn laboratory skills, and potentially participate in a research topic that will be presented at a national meeting. Students will learn how to perform hormone assays, radioimmunoassay, ELISAs, etc., data entry, and fundamentals of experimental design and statistics, and be involved in a manuscript presentation. The opportunity to be involved in patient enrollment in studies also exists. Lectures and resident education conferences will be attended as well as discussions with the director of clinical research on assigned topics. (4 weeks)

POBG 8015 – General OB/GYN Senior Elective:
This is a clinical “independent study” elective in which the student, in consultation with the supervising faculty member identifies the topics he/she wishes to address and negotiates elective goals, objectives, and activities with the faculty and the Office of Student Affairs. (2 or 4 weeks)

POBG 8100 – OB/GYN Research:
This elective is designed to teach medical students selected fundamentals of research, as well as the provide opportunity to learn laboratory skills, and potentially participate in a research topic that will be presented at a national meeting. Students will learn how to perform hormone assays, radioimmunoassay, ELISAs, etc., data entry, and fundamentals of experimental design and statistics and be involved in a manuscript presentation. The opportunity to be involved in patient enrollment in studies also exists. Lectures and resident education conferences will be attended as well as discussions with the director of clinical research on assigned reading topics.
POPH 8010 – Clinical Ophthalmology Elective:
This elective will consist of an extensive exposure to clinical ophthalmology in a private practice setting. The student will be exposed to acute and chronic eye disease in addition to ophthalmic surgery. The main objective of this elective will be to teach the student how to conduct a thorough examination of the eyes and to orient the student to the common eye conditions that every physician should be able to diagnose and treat.

POPH 8011 – General Ophthalmology Senior Elective:
This is a clinical “independent study” elective in which the student, in consultation with the supervising faculty member identifies the topics he/she wishes to address and negotiates elective goals, objectives, and activities with the faculty and the Office of Student Affairs. (2 or 4 weeks)

POPH 8100 – Ophthalmology Research:
This elective introduces the student to the wide range of research possibilities in the area of visual sciences. A number of projects are available. Ongoing projects include Visual psychophysics and electrophysiology, Machine vision, Artificial intelligence applications, Digital imaging, Cell growth acceleration, including work with defensins and Substance P, Cell growth inhibition, including work with cell growth factor receptor blockers, Glaucoma, Glaucoma drug design, Cornea surgery, Vitreoretinal surgery, Instrument development and design, and Retrospective clinical studies.

PORS 8010 – Orthopaedic Surgery Elective:
Students will be assigned to an orthopaedic Faculty member and participate as a member of the orthopaedic team in inpatient and outpatient care, emergency room, and operating room activities. Students should perform history and physical examinations upon all patients admitted by the attending surgeon and present these workups for evaluation. Each student will prepare a presentation for the teaching conference on a subject assigned by a Faculty member. The student will attend all orthopaedic conferences. This elective is for those students interested in surgical specialties or an in-depth experience in orthopaedic surgery.

PORS 8011 – Physical Medicine/Rehabilitation:
This rotation will introduce the basic concepts of physical medicine and rehabilitation. The student will learn techniques in obtaining a complete medical history for patients experiencing musculoskeletal pain. The rotation will also stress the development of an efficient and complete neurological and musculoskeletal examination that will assist the student in developing a differential diagnosis for future patients they may see. The student will be exposed to the total spectrum of the specialty. (2 or 4 weeks)

PORS 8012 – General Orthopaedics Senior Elective:
This is a clinical “independent study” elective in which the student, in consultation with the supervising faculty member identifies the topics he/she wishes to address and negotiates elective goals, objectives, and activities with the faculty and the Office of Student Affairs. (2 or 4 weeks)

PORS 8100 – Orthopaedic Research:
Students with an interest in conducting musculoskeletal research will be assigned to one of the full time orthopaedic faculty members. Under the guidance of this faculty member (and possibly in cooperation with other members of the full time faculty and clinical faculty), the student will be required to directly participate in a research project. The nature and extent of this project is to be agreed upon prior to participation, and credit will not be given unless the agreed upon objectives are accomplished. If the project is completed during the elective, the student is expected to present a written and oral report to
the orthopaedic residents and faculty. If it is agreed that the research cannot be completed in the allotted time, the student will be expected to present a report of the progress that has been accomplished during the elective.

**PPAT 8010 – Anatomic and Clinical Pathology:**
The student will rotate through the sections of the clinical laboratory as follows: (a) Hematology learn how to evaluate electronic differential counts and how to evaluate peripheral smears; (b) Microbiology, learn proper specimen collection/preservation techniques and how to interpret Gram stains; (c) Chemistry/Special Chemistry, learn how to interpret chemistry tests in the clinical context; (d) Serology, learn about interpretation/indications for serologic tests; and (e) Blood Bank, learn about pretransfusion testing, indications for T/S vs. T/X match, and proper blood product handling and storage. Procedures and skills include: (a) Learn about handling of cytology/histology specimens and how to perform simple gross tissue examinations; (b) Learn basics of histology and routing cytology and (c) Observe FNA procedures and understand the indications.

**PPAT 8011 – General Pathology Senior Elective:**
This is a clinical “independent study” elective in which the student, in consultation with the supervising faculty member identifies the topics he/she wishes to address and negotiates elective goals, objectives, and activities with the faculty and the Office of Student Affairs. (2 or 4 weeks)

**PPAT 8100 – Pathology Research:**
Students with an interest in research in Pathology will spend time in the departmental research division participating in some phase of a research project (design and development, literature review, data gathering and interpretation, write-up) under the supervision of a faculty member directing the project.

**PPED 8010 – Adolescent Medicine:**
This elective is designed to help students acquire good interviewing skills, a basic knowledge of adolescent physical and psychosocial development, an understanding of adolescent gynecology, basic skills in evaluation and management of sexually transmitted diseases, knowledge of nutrition and eating disorders in teenagers, management of common skin disorders, ability to identify common orthopaedic problems, knowledge of psychosocial disorders common in adolescents, and insight into the common medical complaints and problems in this age group as well as chronic illnesses seen in adolescents. Students will also gain insight into the legal issues and become familiar with the interface between the adolescent health facility, community agencies and institutions.

**PPED 8011 – Ambulatory Pediatrics:**
The purpose of this elective is to familiarize the student with preventive pediatrics and parent education, acute intervention in common childhood diseases and follow-up visits, evaluation of patients in an outpatient consulting service, and interactions with Faculty and residents about the many facets of ambulatory pediatrics. Students will participate in ambulatory clinics and various conferences and rounds associated with pediatrics. At the end of the rotation, the student will present a topic in ambulatory pediatrics to residents and Faculty.

**PPED 8012 – Pediatric Endocrinology/Metabolism:**
This elective provides exposure to outpatient management of common pediatric endocrine problems. Included will be growth assessment, Type 1 diabetes, congenital hypothyroidism, acquired hypothyroidism, hyperthyroidism, precocious puberty, delayed puberty, congenital adrenal hyperplasia, diabetes insipidus, and disorders of calcium regulation. Limited exposure to inpatient consultations is anticipated. Indications for common endocrine laboratory tests and their interpretation will be reviewed.
Endocrine aspects of common pediatric clinical situations will be discussed.

**PPED 8013 – Pediatric Diabetes Camp:**
This elective offers a unique opportunity to learn day-to-day management of Type 1 diabetes. The student attends a one or two week session at a camp for children with diabetes and takes a direct primary care responsibility for a group of children at the camp. Training is provided under the camp medical directors who are highly trained and thoroughly experienced in managing diabetes in children. Duties include supervision and monitoring of daily blood sugar testing and insulin injections. Precamp training and reading assignments will be provided. Daily meetings during the camp will provide some additional educational opportunities.

**PPED 8014 – Pediatric Infectious Disease:**
The objective of this elective is to familiarize the student with the clinical and microbiologic approach to common pediatric infectious disease problems. The student will become familiar with the different classes of antimicrobial agents and learn when and how to select appropriate empirical antibiotic therapy. The student will participate in the differential diagnosis of pediatric patients presenting with signs and symptoms of an infectious disorder. The student will learn the appropriate laboratory tests and culture techniques for isolation and identification of bacterial, viral, fungal, and parasitic pathogens. Epidemiology and infection control of specific infectious pathogens will be discussed. This elective is primarily an inpatient consultation rotation involving the teaching hospital and two private hospital services with one weekly outpatient clinic for follow-up and consultation. Opportunities for research projects may be available if desired.

**PPED 8015 – Pediatric Cardiology:**
Students will be provided many opportunities to learn a variety of cardiac problems in pediatric patients. The student will observe or participate in any activities that the pediatric cardiologist will perform in the diagnosis and management of children with cardiac diseases. The student will become familiar with the interpretation of normal and abnormal cardiac manifestations and physical findings of cardiac defects in children. The student will observe noninvasive and invasive diagnostic procedures and will be encouraged to interpret electrocardiograms, echocardiograms, and cardiac catheterization data. The student will also have an opportunity to observe cardiac surgery and follow the patient postoperatively with the cardiologist. Sufficient physiopathological background will be provided to make the cardiac problems more comprehensible through lectures, case discussions, and review of pathologic specimens.

**PPED 8018 – Developmental/Behavioral Peds:**
This elective provides exposure to outpatient management of common pediatric developmental or behavioral conditions that often need additional diagnostic and/or management support from other specialties or disciplines. Students will learn the basics on how to evaluate and manage common developmental and/or behavioral signs and symptoms in infants, children, and adolescents. By the end of the rotation, students will have the basic knowledge on how to draft consultations with specific clinical questions and how to review and implement consultant recommendations for care.

**PPED 8019 – Pediatric Hematology & Oncology:**
The purpose of this elective is to provide clinical experience to common problems in hematology and oncology by direct contact with patients. At the end of the rotation, students will be able to learn the essential knowledge in evaluating, diagnosis and managing patients with hematologic and oncologic problems, including those related to anemia, coagulation, lymphomas, leukemias and certain solid tumors, and hematologic and oncologic emergencies. The emphasis will be place on establishing the
rapport with patients, logical approach for differential diagnosis, planning the management according to evidence-based medicine for each clinical situation and condition. Students may also participate in diagnosis procedures including lumbar puncture and bone marrow examination.

PPED 8020 – Pediatric Senior Elective:
This is a clinical “independent study” elective in which the student, in consultation with the supervising faculty member identifies the topics he/she wishes to address and negotiates elective goals, objectives, and activities with the faculty and the Office of Student Affairs. (2 or 4 weeks)

PPED 8100 – Pediatric Research:
The clinical study guidelines are: Ask a scientific question, to review the literature, formulate a hypothesis, write introduction, materials and methods, result submitted to the IRB and learn to obtain consent.

PPSY 8010 – Psychiatry Senior Rotation:
This elective is designed to give the student an opportunity to work with hospitalized inpatients suffering from major psychiatric disorders (affective disorders, schizophrenia, and organic mental disorders). Special emphasis is placed on diagnosis and formulation of treatment plan. In addition, the student will be exposed to those treatment modalities not provided as an outpatient. This would include electroconvulsive therapy (ECT). The student also will have an opportunity to be a part of a multidisciplinary approach to the diagnosis and treatment of inpatient population.

PPSY 8011 – Community Services/Child Psychiatry:
This elective offers the opportunity to participate in the evaluation and treatment of children and adolescents with emotional and developmental disorders in a variety of community agencies. At least 75% of the time will be spent as consult service on the ward and approximately 25% time will be in the clinic.

PPSY 8012 – Forensic Psychiatry:
The student will be able to identify the basic concepts of forensic and legal psychiatry. The student will also be involved in the actual evaluation procedure for court-referred cases with forensic implications and will attend actual trials and observe psychiatric expert testimony.

PPSY 8013 – Sleep Disorder Medicine:
This elective must be combined with another topic of interest during the rotation. This elective reviews the basics of sleep physiology and gives clinical exposure to a wide range of sleep pathology. The student will become acquainted with polysomnography procedures in the Sleep Disorders Center. Disorders such as insomnias, sleep apneas, narcolepsy, and parasomnias will be seen. Students will be expected to observe polysomnographies at night.

PPSY 8100 – Psychiatric Research Elective:
Students with an interest in research in Psychiatry will spend time in the departmental research division participating in some phase of a research project (design and development, literature review, data gathering and interpretation, write-up) under the supervision of a faculty member directing the project.

PRAD 8010 – Radiology Elective:
The student will observe and participate in all phases of radiological diagnosis to include fluoroscopy, plain film interpretation, special procedures, nuclear imaging, diagnostic ultrasound, and computed tomography where available. A radiological teaching file is provided for study purposes, and the
student is expected to spend a portion of the time reviewing this file. Attendance at intradepartmental conferences is expected.

**PRAD 8012 – Advances in Neuroanatomy and Neuroradiology:**
Students will spend 2 – 4 hours a day participating in patient care under the supervision of the elective director, and they will also spend time reviewing the instructor’s teaching files. In addition students will participate in didactic lecture/seminar sessions, complete assigned readings in neuroanatomy, and they will also access information on selected websites as directed by the instructor. Students will also spend at least one day participating in the activities of the neuroangiography suite.

**PRAD 8100 – Radiology Research:**
Students with an interest in research in Psychiatry will spend time in the departmental research division participating in some phase of a research project (design and development, literature review, data gathering and interpretation, write-up) under the supervision of a faculty member directing the project.

**PSUR 8011 - Otolaryngology/Head/Neck Surgery:**
This is an advanced experience in the management of patients with diseases of the ear, nose, and throat. This includes diseases of the airway, esophagus as well as head and neck cancer. Included are a series of lectures, rounds, and clinical experiences with a review of pathology. The course is of value to both a primary care physician as well as a student interested in a career as a surgeon.

**PSUR 8012 – Pediatric Surgery:**
The student will be permitted to review and participate in the care of surgical diseases of infants and children, including the operative management of premature infants with congenital defects, pre/postoperative care in the neonatal unit, Pediatric Intensive Care Unit, and diagnostic radiology in acute pediatric surgical disease. The student will be introduced to the delicate techniques and manipulative skills necessary in the care of these patients.

**PSUR 8013 – Plastic Surgery:**
The elective is designed to acquaint the student with the basic principles of plastic and reconstructive surgery including burns, cosmetic surgery, and trauma to extremities. Also included is an introduction to the principles of microsurgery. The student observes as well as participates in the pre/postoperative and follow-up for such patients.

**PSUR 8015 – Neurosurgery:**
This elective is designed to allow the student to "wear the moccasins" of a neurosurgeon for one month. There will be exposure to outpatient and inpatient consultations including review of radiological and neurophysiologic studies, and the neurological decision making process. There will be the opportunity to participate in the operating room, intensive care unit, and regular ward care of neurosurgical patients.

**PSUR 8016 – Female Breast Disease/Treatment:**
This elective is designed to expose the 4th year medical student to and educate him/her in all aspects of female breast disease. The student will participate in the outpatient clinics evaluating patients and participate in the diagnosis and treatment of benign and malignant disease. The student will assist on breast biopsies in the outpatient clinic and will assist at hospital operative procedures. The student will spend time with the medical oncologist in the outpatient setting and at the Infusion Center. The student will also spend time at the Breast Imaging Center assisting with mammography and ultrasound.
PSUR 8017 – Senior Surgery Elective:
This is a clinical “independent study” elective in which the student, in consultation with the supervising faculty member identifies the topics he/she wishes to address and negotiates elective goals, objectives, and activities with the faculty and the Office of Student Affairs. (2 or 4 weeks)

PSUR 8100 – Surgical Research:
The clerk will receive an introduction to the design and conduct of a laboratory investigation and will participate in one or more ongoing projects.

Departments of the School of Medicine
  Department of Anesthesiology
  Department of Emergency Medicine
  Department of Biomedical Sciences
  Department of Family and Community Medicine
  Department of Medical Education
  Department of Internal Medicine
  Department of Ophthalmology
  Department of Psychiatry
  Department of Obstetrics & Gynecology
  Department of Orthopedic Surgery
  Department of Pathology
  Department of Pediatrics
  Department of Radiology
  Department of Surgery
FULL TIME FACULTY

A

Abbas, Aamer, M.D., 1996, Dow Medical College, University of Karachi, Assistant Professor, Internal Medicine

Abdelgawad, Amr M., M.D., 1998, Ain Shams University, Assistant Professor, Orthopaedic Surgery

Akle, Nassim, M.D., 2004, Universite Catholique de Louvain (Belgium) Assistant Professor, Radiology

Alozie, Ogechika K., M.D., 1900, University of Benin School of Medicine (Nigeria), Assistant Professor, Internal Medicine

Aly, Fatima F., M.D., 1985, University of Manchester School of Medicine, Assistant Professor, Pediatrics

Ambat, Maria Teresa, M.D., 1994, University of Santo Tomas, Assistant Professor, Pediatrics

Anchondo, Inez, Dr.PH., 2002, University of Texas at Houston, School of Public Health, Assistant Professor

Antowan, Cenam M., M.D., 1988, University of Baghdad, College of Medicine, Assistant Professor, Pediatrics

Aragon, Lorenzo B., M.D., 1981, National Autonomous University of Nicaragua, Assistant Professor, Family and Community Medicine

Arana, Tania, Ph.D., 2006, University of Ottawa, Assistant Professor, Medical Education

Ayyappan, Anoop, M.D., 2003, Trichur Medical College (India), Assistant Professor, Radiology

Atkinson, Darryl A., D.O., 1988, Oklahoma College of Osteopathic Medicine and Surgery, Assistant Professor of Clinical, Emergency Medicine

Azarcon, Fernando, M.D., 1989, University of Santo Tomas Faculty of Medicine and Surgery (Philippines), Assistant Professor, Radiology

B

Baatar, Dolgor, M.D., 1989, Moscow Medical University (Russia), Ph.D., 2000, Oita Medical University (Japan), Assistant Professor, Medical Education

Badr, Ahmed E., M.D., 1983, Tanta University School of Medicine, Department Chair and Professor, Anesthesiology

Barbosa, Vera, M.D., 1980, Federal University of Ceara School of Medicine (Brazil), Assistant Professor, Anesthesiology

Barnes, Keith, P.A.-C, 1993, Baylor College of Medicine, Faculty Associate, Internal Medicine.

Baston, Robert Kirk, M.D., 1994, Medical University of South Carolina, Assistant Professor, Medical Education

Beale, Elmus G., Ph.D., 1977, Baylor College of Medicine, Professor, Medical Education
Blanc, Oscar H., M.D., 1990, University of Illinois, Instructor of Clinical, Pediatrics

Blandon, Pedro, M.D., 1995, Universidad de Guadalajara, Assistant Professor, Internal Medicine

Blunk, Dan L., M.D., 1974, University of Texas Medical Branch, Associate Professor, Psychiatry

Boman, Darius A., M.D., 1972, Seth B.S. Medical College University of Mumbai, Department Chair and Associate Professor, Pathology

Borron, Steven W., M.D., 1984, University of Texas Medical School at Galveston, Professor, Emergency Medicine

Bramlett, Debra E., Ph.D., 1995, University of Texas at Austin, Assistant Professor, Medical Education

Bright, Tamis M., M.D., 1989, Loyola University Stritch School of Medicine, Associate Professor of Clinical, Internal Medicine

Briones, David F., M.D., 1971, University of Texas Medical Branch, Interim Department Chair and Professor, Psychiatry

Brooks, Rachel, C.N.M, 2011, Frontier School of Midwifery and Family Nursing in Hyden, Faculty Associate, OB/GYN

Brower, Richard D., M.D., 1985, University of Texas Medical Branch, Associate Professor, Medical Education

Brown, James, M.D., 1994, Texas Tech University School of Medicine, Assistant Professor, Emergency Medicine

Brunner, Noemi, M.D., Universidad La Salle (Mexico), Assistant Professor, Radiology

Bryan, Brad, Ph.D., 2005, Texas A&M University Health Sciences Center, Assistant Professor, Biomedical Sciences

Bryan, E. David, M.D., 1991, University of Texas at Houston, Assistant Professor of Clinical, Emergency Medicine

Burgos, Jose, M.D., 2003, Universidad de Carabobo (Venezuela), Assistant Professor, Internal Medicine

Burt, Benjamin O., M.D., 1997, University of Melbourne, Assistant Professor, Ophthalmology

Byrd, Theresa, Dr. P.H. 1994, University of Texas-Houston Health Science Center, Professor, Medical Education

Caero, Joseph, M.D., 1985, Universidad Mayor de San Simon Medical School (Bolivia), Assistant Professor, Anesthesiology

Calleros-Macías, Jesus E., M.D., 1991, Universidad Autónoma de Chihuahua, Assistant Professor, Radiology

Camp-Law, Barbara, P.A., 1960, University of Denver, Faculty Associate, Pediatrics

Campos, Rebecca, M.D., 2008, University of Texas Medical Branch at Galveston, Assistant Professor, Family and Community Medicine

Carcamo, Benjamin, M.D., 1980, Universidad de San Carlos (Guatemala), Assistant Professor, Pediatrics
Cardwell, Michael, M.D., 1978, Medical College of Indiana, Associate Professor, OB/GYN

Casner, Paul R., M.D., 1980, New York Medical College, Ph.D., 1975, New York Medical College, Professor, Internal Medicine

Castellon, Danelia, M.D., 1997, Krasnodarkaya Medicinskaya Academy (Russia), Assistant Professor, Family and Community Medicine

Chaudhary, Humera, M.D., 1996, King Edward Medical College (Pakistan), Associate Professor, Radiology

Christenson, Robert A., M.D., 1980, Loma Linda University, Associate Professor of Clinical, Pediatrics

Clark III, Charles P., B.S.N., 1971, University of Texas at Houston, Faculty Associate, Anesthesiology

Cook, Jonathan, M.D., 1981, University of Vermont, Assistant Professor, Orthopaedic Surgery

Corral, Javier, M.D., 1984, Stanford University School of Medicine, Assistant Professor, Internal Medicine

Couë, Martine, Ph.D., 1986, Paris VI University, Associate Professor, Medical Education

Cuettet, Albert C., M.D., 1963, Cartagena University Medical School, Professor of Clinical, Psychiatry

Danodaran, Chendil, Ph.D., 1995, University of Madras (India), Associate Professor, Biomedical Sciences

Davis, Brian R., M.D., 1999, Baylor College of Medicine, Assistant Professor, Surgery

Davis II, Harry E., M.D., 1966, West Virginia University School of Medicine, Associate Professor, Internal Medicine

de la Rosa, J. Manuel, M.D., 1984, Texas Tech University School of Medicine, Founding Dean and Professor, Pediatrics

DeVargas, Cecilia C., M.D., 1966, Universidad del Valle, Assistant Professor, Psychiatry

Diaz, Marco, M.D., 2006, University of New Mexico School of Medicine, Assistant Professor, Family and Community Medicine

Didia, Silvia C., M.D., 1989, University of Buenos Aires School of Medicine, Assistant Professor, Internal Medicine

Dominguez, Guadalupe, A.C.N.P, 2006, University of Texas at El Paso, Faculty Associate, Anesthesiology

Dou, Huanyu, M.D., 1982, Weifang Medical University (China), Assistant Professor, Biomedical Sciences

Dougherty, Steve H., M.D., 1973, University of California, Professor, Surgery

Escamilla, Michael, M.D., 1983, University of Texas Southwestern School of Medicine, Professor, Psychiatry

Escobar-Prieto, Adolfo, M.D., 1965, Universidad Nacional Autónoma de Mexico, Associate Professor, Radiology
Fagan, Rona G., M.A., 1986, Webster University, Faculty Associate, Orthopaedic Surgery

Fernandez, Norma, Ph.D., 2010, University of Texas at El Paso, Assistant Professor, Family and Community Medicine

Figueroa-Casas, Juan B., M.D., 1991, Universidad National de Rosario, Assistant Professor, Internal Medicine

Filler, Trent, D.D.S., 1980, Baylor College of Dentistry, Assistant Professor, Surgery

Flores, Angela Therese, M.D., 1997, University of the East Ramon Magsaysay Memorial Medical College (Philippines), Assistant Professor, Pediatrics

Follen, Michelle, M.D., 1980, University of Michigan Medical School, Professor, OB/GYN

Francis, Maureen, M.D., 1984, Jefferson Medical College, Associate Professor, Medical Education

Fuhrman, Bradley, M.D., 1971, New York University School of Medicine, Professor, Pediatrics

Garcia, Blanca I., M.D., 1998, Texas Tech University School of Medicine, Assistant Professor of Clinical, Pediatrics

Garcia, Norma, R.N., 2005, University of Phoenix, Faculty Associate, Pediatrics

Garg, Himanshu, Ph.D., 2003, North Carolina State University, Research Instructor, Biomedical Sciences

Gaspar de Alba, Mario, M.D., 1997, New York Medical College, Assistant Professor, Pediatrics

Gaur, Sumit, M.D., 1997, Jawahar Lal Nehru Medical College (India), Assistant Professor, Internal Medicine

Gosavi Sucheta, M.D., 1989, R.G. Kar Medical College and Hospital (India), Assistant Professor, Internal Medicine

Gough, David C., M.D., 1969, University of Kansas, Associate Professor, Internal Medicine

Greenberg, Harvey, M.D., 1971, State University of New York, Associate Professor of Clinical, OB/GYN

Greene, Scott P., M.D., 1999, Texas Tech University School of Medicine, Assistant Professor of Clinical, Emergency Medicine

Greer, Veronica L., M.D., 1989, University of Texas Health Sciences Center at Houston, Assistant Professor, Emergency Medicine

Groening, Tracie, D.O., 2005, Touro University College of Osteopathic Medicine, Instructor, OB/GYN

Guerrero, Richard, M.D., 2003, Texas Tech University of Medicine, Assistant Professor, Internal Medicine

Gangwani, Laxman, Ph.D., 1993, University of Delhi (India), Associate Professor, Biomedical Sciences

Gao, Xing, M.D., 2006, Case Western Reserve University School of Medicine, Assistant Professor, Anesthesiology
Guerrero, Rosalinda, R.N., 1992, University of Colorado Health Sciences Center, Faculty Associate, Internal Medicine

Guta, Cosmin, M.D., 1997, Carol Davila University of Medicine and Pharmacy Bucharest (Romania), Associate Professor, Anesthesiology

Gutierrez, Octavio, M.D., 1970, Universidad Autonoma de Nuevo Leon, Faculty de Medicina (Mexico), Assistant Professor, Psychiatry

Gutierrez Jr., Samuel C., M.B.A., 2002, University of Phoenix, Faculty Associate, Emergency Medicine

Hakim, M. Nawar, M.D., 1987, Damascus University School of Medicine, Assistant Professor, Pathology

Han, Anthony, M.D., 1985, Seoul National University College of Medicine (S. Korea), Ph.D., 2001, Catholic University Graduate School of Medicine, Associate Professor, Anesthesiology

Handal, Gilbert A., M.D., 1967, University of Chile School of Medicine, Professor, Pediatrics

Haque, Quazi, M.D., 1989, Sylhet Mag Osmani Medical College (Bangladesh), Assistant Professor, Anesthesiology

Haynes, John F., M.D., 1980, University of Texas Health Sciences Center at San Antonio, Associate Professor, Emergency Medicine

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Hernandez, Terry, N.P., 1979, University of Texas at El Paso, Faculty Associate, Emergency Medicine

Ho, Hoi, M.D., 1972, University of Saigon School of Medicine, Associate Dean for Faculty Affairs and Development and Professor, Internal Medicine

Hogg, Tanis E., Ph.D., 2001, Friedrich-Schiller University, Associate Professor, Medical Education

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Kanlic, Enes M., M.D., 1977, University of Belgrade School of Medicine (Serbia), Ph.D., 1990, University Medical School Sarajevo (Bosnia), Professor, Orthopaedic Surgery

Kupesic, Sanja P., M.D., 1984, University of Zagreb, School of Medicine, Ph.D., 1991, University of Zagreb, School of Medicine, Professor, Medical Education

Lacaze, Mary, M.D., 1991, Mt. Sinai School of Medicine of New York University, Assistant Professor, Pediatrics

Lacy, Naomi, Ph.D., 1997, University of Nebraska, Associate Professor, Family and Community Medicine

Laks, Shaked, M.D., 2004, New York University School of Medicine, Assistant Professor, Radiology

Lakshmanswamy, Rajkumar, Ph.D., 1997, University of Madras, Associate Professor, Biomedical Sciences

Lalude, Omasalewa O., M.D., 1995, University of Lagos, College of Medicine, Assistant Professor, Internal Medicine

Leiner, Marie A., Ph.D., 2000, Nova SouthEast University, Research Associate Professor, Psychiatry

Levin, Garrett S., M.D., 1973, Universidad Autónoma de Guadalajara, Associate Professor of Clinical, Pediatrics

Lyn, Heidi A., M.D., 1994, Baylor College of Medicine, Assistant Professor, OB/GYN

MacKay Jr., John M., M.D., 1984, Medical College of Ohio at Toledo, Assistant Professor of Clinical, Emergency Medicine

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Maldonado, Alfredo, M.D., 2003, J & S Weill Medical College, Cornell University, Assistant Professor, Emergency Medicine

Maldonado, Michael F., O.D., 2006, Interamerican U.P.R. School of Optometry, Faculty Associate, Ophthalmology

Malekzadeh, Farzad, M.D., 2001, Ross University School of Medicine, Instructor, Anesthesiology

Mallett, Veronica, M.D., 1983, Michigan State University, Professor, OB/GYN

Malone, Veronica, F.N.P, 2003, New Mexico State University, Faculty Associate, Orthopaedic Surgery
Manriquez, Cielo, M.D., 1998, University of Texas Medical Branch at Galveston, Assistant Professor, Internal Medicine

Manting, Michele, M.D., 1986, University of Miami School of Medicine, Associate Professor, OB/GYN

Martin, Charmaine A., M.D., 1996, University of Texas Medical Branch, Assistant Professor, Family and Community Medicine

Martinez, Carla, M.D., 2002, University of New Mexico School of Medicine, Assistant Professor, OB/GYN

Martinez-Lopez, Jorge I., M.D., 1950, Louisiana State University, Professor, Internal Medicine

Maud, Alberto, M.D., 1995, Universidad Nacional de Cordoba (Argentina), Assistant Professor, Neurology

McCallum, Richard W., M.D., 1968, The University of Queensland and the Queensland Medical School, Department Chair and Professor, Internal Medicine

McIlvaine, Jr., William, M.D., 1978, McGill University (Canada), Associate Professor, Anesthesiology

McLean, Susan F., M.D., 1988, Medical College of Virginia, Associate Professor, Surgery

Meier, Donald E., M.D., 1971, University of Tennessee Health Sciences Center, Professor of Clinical, Surgery

Mendez, Melissa, M.D., 2003, University of California at Irvine College of Medicine, Assistant Professor, OB/GYN

Meza, Armando D., M.D., 1986, Universidad Autónoma de Ciudad Juárez, Associate Dean for Graduate Medical Education and Assistant Professor, Internal Medicine

Miller, Dennis, M.D., 1972, Indiana University Medical School, Assistant Professor, Anesthesiology

Miller, William T., M.D., 1966, Baylor College of Medicine, Associate Professor of Clinical, Surgery

Miller III, Charles "Trey" C., Ph.D., 1993, University of Texas Health Science Center at Houston, Department Chair, Associate Dean for Research, Department Chair, and Professor, Biomedical Sciences

Modave, Francois, Ph.D., 1999, University of Toulouse III (France), Associate Professor, Biomedical Sciences

Molokwu, Jennifer, M.D., 2002, University of Benin School of Medicine (Nigeria), M.P.H., 2007, University of Minnesota, Assistant Professor, Family and Community Medicine

Morales Gonzalez, Angel, M.D., 2002, Instituto Tecnologico de Estudios Superiores de Monterrey (Mexico), Associate Professor, Surgery

Moure Ramírez, Gil M., D.P.M., 1991, Ohio College of Podiatric Medicine, Faculty Associate, Orthopaedic Surgery

Mukherjee, Debabrata, M.D., 1988, Government Medical College (India), Professor, Internal Medicine

Mulla, Zuber D., Ph.D., 2001, University of South Florida, M.S.P.H., 1994, University of South Florida College of Public Health, Associate Professor, OB/GYN
<table>
<thead>
<tr>
<th>Name</th>
<th>Year of Graduation</th>
<th>Institution</th>
<th>Position</th>
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<tbody>
<tr>
<td>Mulne, Arlynn, M.D.</td>
<td>1973</td>
<td>Ohio State University School of Medicine, Associate Professor, Pediatrics</td>
<td></td>
</tr>
<tr>
<td>Murtaza, Ghulam, M.D.</td>
<td>1970</td>
<td>King Edward Medical College (Pakistan), Assistant Professor, OB/GYN</td>
<td></td>
</tr>
<tr>
<td>Nahleh, Zenia, M.D.</td>
<td>1995</td>
<td>American University of Beirut (Lebanon), Associate Professor, Internal Medicine</td>
<td></td>
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<tr>
<td>Naylor, Anthony D., M.D.</td>
<td>1967</td>
<td>Middlesex Hospital Medical School, Assistant Professor, Radiology</td>
<td></td>
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<tr>
<td>Nelson, Brian K., M.D.</td>
<td>1975</td>
<td>Baylor College of Medicine, Department Chair and Professor, Emergency Medicine</td>
<td></td>
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<tr>
<td>Noriega, Oscar A., M.D.</td>
<td>1977</td>
<td>University of California in San Francisco School of Medicine, Associate Professor, Family and Community Medicine</td>
<td></td>
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<tr>
<td>Nussbaum, Ralph, D. O.</td>
<td>1982</td>
<td>Texas College of Osteopathic Medicine, Assistant Professor, Anesthesiology</td>
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<tr>
<td>Nwosu, Azikiwe C., M.D.</td>
<td>1979</td>
<td>University of Nigeria, Associate Professor, Internal Medicine</td>
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<tr>
<td>Nyakeriga, Alice, Ph.D.</td>
<td>2005</td>
<td>Stockholm University (Sweden), Research Instructor, Biomedical Sciences</td>
<td></td>
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<tr>
<td>Olivas, Cecilia, F.N.P. – C.</td>
<td>2008</td>
<td>University of Texas at El Paso, Faculty Associate, Neurology</td>
<td></td>
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<tr>
<td>Orlandi, Marc, M.D.</td>
<td>1991</td>
<td>Northeast Ohio Medical University, Assistant Professor, Anesthesiology</td>
<td></td>
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<tr>
<td>Ortega, Deborah A., M.D.</td>
<td>1992</td>
<td>University of Texas Medical Branch, Academic Assistant Professor, Anesthesiology</td>
<td></td>
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<tr>
<td>Osborne, David L., Ph.D.</td>
<td>1989</td>
<td>East Carolina University School of Medicine, Professor, Medical Education</td>
<td></td>
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<tr>
<td>Othman, Mohamed, M.D.</td>
<td>2001</td>
<td>Mansoura University, Faculty of Medicine (Egypt), Assistant Professor, Internal Medicine</td>
<td></td>
</tr>
<tr>
<td>Padilla, Osvaldo, M.D.</td>
<td>1998</td>
<td>U.T. Houston Medical School, M.P.H., 2000, Tufts School of Public Health, Assistant Professor, Medical Education</td>
<td></td>
</tr>
<tr>
<td>Parsa, Michael, M.D.</td>
<td>1998</td>
<td>Creighton University School of Medicine, Assistant Professor, Emergency Medicine</td>
<td></td>
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<tr>
<td>Pasillas, Rebecca, Ph.D.</td>
<td>2008</td>
<td>University of Nevada, Assistant Professor, Psychiatry</td>
<td></td>
</tr>
<tr>
<td>Pathak, Indu, M.D.</td>
<td>1978</td>
<td>Maharshi Dapanand University (India), Assistant Professor, Pediatrics</td>
<td></td>
</tr>
<tr>
<td>Peinado, Jesus, M.D.</td>
<td>1996</td>
<td>Universidad Juarez del Estado de Durango Escuela de Medicine Humana (Mexico), Assistant Professor, Pediatrics</td>
<td></td>
</tr>
<tr>
<td>Pema, Kanchan M., M.D.</td>
<td>1979</td>
<td>University of Natal, Associate Professor, Internal Medicine</td>
<td></td>
</tr>
<tr>
<td>Penaranda, Eribeth K., M.D.</td>
<td>2000</td>
<td>Universidad Nacional de Colombia, Assistant Professor, Family and Community Medicine</td>
<td></td>
</tr>
</tbody>
</table>
Perez, Ruth, Ph.D., 1993, University of Pittsburg School of Medicine, Associate Professor, Biomedical Sciences

Petty, Leonora, M.D., 1973, University of Pennsylvania Medical School, Associate Professor, Psychiatry

Pfarr, Curtis M., Ph.D., 1990, University of Colorado at Boulder, Associate Professor, Medical Education

Pimentel, Elizabeth A., M.S.N., 1993, University of Texas at El Paso, College of Nursing and Allied Health, Faculty Associate, Orthopaedic Surgery

Pirela-Cruz, Miguel A., M.D., 1980, Temple University, Department Chair and Professor, Orthopaedic Surgery

Piskurich, Janet F., Ph.D., 1994, Case Western Reserve University, Associate Professor, Medical Education

Plavsic, Branko M., M.D., 1972, University of Zagreb School of Medicine, Professor, Radiology

Porras-Aguliar, Mateo, M.D., 2005, Universidad La Salle (Mexico), Assistant Professor, Internal Medicine

Portugal, Elizabeth A., M.S.N., 2002, University of Texas at El Paso School of Nursing, Faculty Associate, OB/GYN

Poulton, Thomas, M.D., 1975, Ohio State University College of Medicine, Professor, Anesthesiology

Prieto-Jimenez, Carmen A., M.D., 1989, University of El Salvador, Assistant Professor, Pediatrics

Quest, Dale W., Ph.D., 1997, University of Saskatchewan, Associate Professor, Medical Education

Ramirez, Mercedes, M.D., 1987, Universidad Autonoma de Cuidad Juarez (Mexico), Research Assistant Professor, Psychiatry

Reddy, Sireesha, M.D., 1995, Columbia University College of Physicians and Surgeons, Professor, OB/GYN

Renteria-Alvarez, Jose, M.D., 2000, Universidad Autonoma de Cuidad Juarez, (Mexico), Assistant Professor, Pediatrics

Roberts, Jacqueline J., M.S.N., 2004, Ball State University, Faculty Associate, Emergency Medicine

Robinson, Jakki, C.N.M., 2011, Vanderbilt University School of Nursing, Faculty Associate, OB/GYN

Robinson, Arvin E., M.D., 1964, Medical College of Virginia, Department Chair and Professor, Radiology

Romano, Michael, M.D., 1984, University of Texas Health Science Center at Houston, Associate Professor, Pediatrics

Romero, Roberta, F.N.P.-C., 2009, Texas Tech University School of Medicine, Faculty Associate, Internal Medicine

Salazar, Tammy T., Ph.D., 2006, University of Texas at Austin, Assistant Professor, Family and Community Medicine
Saldívar, J. Salvador, M.D., 1996, University of Illinois at Chicago, M.P.H., 2005, University of Texas School of Public Health, Assistant Professor, OB/GYN

Saltzstein, Edward C., M.D., 1957, Northwestern University Medical School, Professor, Surgery

San Juan, Zinnia, M.D., 2004, University of the Philippines Manila College of Medicine, Assistant Professor, Internal Medicine

Sandroni, Stephen, M.D., 1978, New York Medical College, Professor, Medical Education

Sarmiento, Jorge L., M.D., 1992, Colombian Medical School in Bogota, Visiting Professor, Radiology

Sarosiek, Irene, M.D., 1979, Medical University of Bialystok (Poland), Associate Professor, Internal Medicine

Sarosiek, Jerzy, M.D., 1969, Medical University of Bialystok (Poland), Professor, Internal Medicine

Schydlower, Manuel, M.D., 1971, University of New Mexico, Associate Dean for Admissions and Professor, Pediatrics

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