

The University of Tennessee Health Science Center

College of Medicine

2015-2016



Clerkships, Selectives and Electives

Office of Medical Education
College of Medicine
The University of Tennessee Health Science Center
910 Madison Avenue, Suite 1002
Memphis, Tennessee 38163
(901) 448-5506

<http://www.uthsc.edu/Medicine/OLSEN/>

April 14, 2015

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Department of Pathology

Department of Pediatrics

Department of Plastic Surgery

Department of Radiology

Department of Surgery

Other Rotations

	8-WEEK BLOCKS	START DATE	END DATE	4-WEEK BLOCKS
2014-2015	5/6	5-May-14	30-May-14	5
		2-Jun-14	27-Jun-14	6
	7/8	30-Jun-14	25-Jul-14	7
		28-Jul-14	22-Aug-14	8
	9/10	25-Aug-14	19-Sep-14	9
		22-Sep-14	17-Oct-14	10
	11/12	20-Oct-14	14-Nov-14	11
		17-Nov-14	19-Dec-14	12
	1/2	5-Jan-15	30-Jan-15	1
		2-Feb-15	27-Feb-15	2
	3/4	2-Mar-15	27-Mar-15	3
		6-Apr-15	1-May-15	4
	5/6	4-May-15	29-May-15	5
		1-Jun-15	26-Jun-15	6
	7/8	29-Jun-15	24-Jul-15	7
		27-Jul-15	21-Aug-15	8

Holidays*
Thanksgiving: Nov 22-30, 2014
Winter Break: Dec 201, 2014-Jan 4, 2015
MLK Day: Jan 19, 2015
Spring Break: March 28-April 5, 2015

** Holidays start at 5:00pm on the day prior to the holiday start date listed above. Students are to report back to their clerkships on the morning following the holiday-end date (updated 7/27/12)*

	8-WEEK BLOCKS	START DATE	END DATE	4-WEEK BLOCKS	
2015-2016	5/6	4-May-15	29-May-15	5	
		1 Jun-15	26-Jun-15	6	
	7/8	29-Jun-15	24-Jul-15	7	
		27-Jul-15	21-Aug-15	8	
	9/10	24-Aug-15	18-Sep-15	9	
		21-Sep-15	16-Oct-15	10	
	11/12	19-Oct-15	13-Nov-15	11	
		16-Nov-15	18-Dec-15	12	
	1/2	4-Jan-16	29-Jan-16	1	
		1-Feb-16	26-Feb-16	2	
	3/4	29-Feb-16	24-Mar-16	3	
		4-Apr-16	29-Apr-16	4	
	5/6	2-May-16	27-May-16	5	
		30-May-16	24-Jun-16	6	
	7/8	27-Jun-16	22-Jul-16	7	
		25-Jul-16	19-Aug-16	8	
	Holidays* Thanksgiving: Nov. 21-29, 2015 Winter Break: Dec 19, 2015-Jan 3, 2016 MLK Day: Jan 18, 2016 Spring Break: Mar 25-Apr 3, 2016 *Holidays start at 5:00 pm on the day prior to the holiday start date listed above. Students are to report back to their clerkships on the morning following the holiday end-date. (updated 7/27/12)				

COLLEGE OF MEDICINE
UNIVERSITY OF TENNESSEE HEALTH SCIENCE CENTER

CHANCELLOR

STEVE J. SCHWAB, M.D.

EXECUTIVE DEAN/ MEMPHIS DEAN, COLLEGE OF MEDICINE

DAVID M. STERN, M.D

SENIOR ASSOCIATE DEAN/MEDICAL EDUCATION

CLINT W. SNYDER, PH.D., MBA

ASSOCIATE DEAN/STUDENT AFFAIRS

OWEN PHILLIPS, M.D.

ASSOCIATE DEAN/FACULTY AFFAIRS

POLLY A. HOFMANN, PH.D.

EXECUTIVE ASSOCIATE DEAN/GRADUATE MEDICAL EDUCATION
AND CONTINUING MEDICAL EDUCATION

EUGENE C. MANGIANTE, M.D.

COLLEGE OF MEDICINE MEMPHIS

Executive Dean, College of Medicine

David M. Stern, M.D.

DEPARTMENT	CHAIR	TELEPHONE (AC 901)
Anatomy & Neurobiology	Matthew Ennis, Ph.D.	448-5957
Anesthesiology	TBD	448-5988
Comparative Medicine	Timothy D. Mandrell, D.V.M.	448-5656
Dermatology	Kathryn Schwarzenberger, M.D.	448-5795
Family Medicine	David L. Maness, D.O., M.S.S., F.A.A.F.P.	448-6028
Medicine	Guy L. Reed III, M.D.	448-5752
Microbiology, Immunology & Biochemistry	Michael Whitt, Ph.D.	448-6175
Neurology	Andrei V. Alexandrov, M.D.	448-6199
Neurosurgery	Frederick A Boop, M.D.	448-6375
Obstetrics & Gynecology	Giancarlo Mari, M.D.	448-5340
Ophthalmology	James C. Fleming, M.D.	448-5883
Orthopaedic Surgery & Biomedical Engineering	S. Terry Canale, M.D.	448-5880
Otolaryngology--Head & Neck Surgery	Jerome W. Thompson, M.D.	448-5886
Pathology	Charles Handorf, Ph.D., M.D.	448-6300
Pediatrics	Jon McCullers, M.D.	287-3106
Pharmacology	Alejandro	448-6000
Physiology	Gabor J. Tigyi, Ph.D.	448-5799
Preventive Medicine	Karen C. Johnson, M.D. (Interim)	448-5118
Psychiatry	James Allen Greene, M.D.	448-6400
Radiation Oncology	Matthew T. Ballo, M.D.	448-5000
Radiology	Harris L. Cohen, M.D.	(901)287- 6175
Surgery	Timothy C. Fabian, M.D.	448-5914
Plastic Surgery	Robert D. Wallace, M.D.	347-8290
Urology	Robert Wake, M.D.	448-1026

The address to be used for all Chairs is:

College of Medicine
The University of Tennessee Health Science Center
Individual Address of each department
Memphis, Tennessee 38163

COLLEGE OF MEDICINE CHATTANOOGA

Executive Dean, College of Medicine

David M. Stern, MD

Dean

David C. Seaberg, MD, CPE, FACEP

Scheduling for clerkships and electives in Chattanooga is handled as part of the scheduling process at Memphis. In addition, students should contact the Office of Graduate and Medical Student Education (Tammy Elliott, Coordinator, or Pamela Scott, Director) at the UT College of Medicine Chattanooga, 960 East Third Street, Suite 104, Chattanooga, Tennessee 37403 (phone 423-778-7442) or email gme@erlangers.org with questions about housing and related matters. The toll free number is 800-947-7823, ext. 7442.

As soon as students schedule rotations in Chattanooga, if they need to request housing, they should complete the online housing request form at:

<http://www.utcomchatt.org/subpage.php?pageId=1053>

There is a charge for student housing of \$50.00 for "each" Block. This fee is due on the first day of the student's rotation, in the form of: Check, Online Banking, Money Order or Credit.

DEPARTMENT	CHAIR	TELEPHONE (AC 423)	EMAIL
Emergency Med	David Seaberg, MD (Dean)	778-7628	Velvet.Green@erlangers.org
Family Medicine	J. Mack Worthington, MD	778-2957*	Utfammed@erlangers.org
Medicine	Mukta Panda, MD	778-2998*	Utintmed@erlangers.org
Obstetrics/ Gynecology	Garrett Lam, MD	778-7515*	Utobgyn@erlangers.org
Orthopaedic Surgery	Richard G. Alvarez, MD	778-9008*	Utorthosurg@erlangers.org
Pediatrics	Alan E. Kohrt, M.D.	778-6217*	Utpediat@erlangers.org
Plastic Surgery	Larry A. Sargent, MD	778-9047*	Utplastics@thepsg.org
Radiology	R. Kent Hutson, MD	778-7241*	Kent.Hutson@erlangers.org
Surgery	R. Phillip Burns, MD	778-7695*	Utsurg@erlangers.org

The address for the chairs in Chattanooga is:

UT College of Medicine Chattanooga
Name of Chair, Department of _____
Individual address of each department
Chattanooga, TN 37403

COLLEGE OF MEDICINE KNOXVILLE

Executive Dean, College of Medicine

David M. Stern, M.D.

Dean

James J. Neutens, Ph.D., FASHA

Scheduling for clerkships and electives at Knoxville is handled as part of the scheduling process at Memphis. In addition, students should contact the Office of Student Affairs, The University of Tennessee Medical Center at Knoxville, 1924 Alcoa Highway, Knoxville, Tennessee 37920 (phone 865-305-9618) or email Missy Maples at: mmaples@utmck.edu to obtain specifics about housing and other personal matters.

DEPARTMENT	CHAIR	TELEPHONE (AC 865)
Anesthesiology	Jerry L. Epps, M.D.	305-9221
Family Medicine	Gregory H. Blake, M.D., MPH	305-9352
Internal Medicine	Rajiv Dhand, M.D.	305-9340
Obstetrics/Gynecology	Larry Kilgore, M.D. (Interim)	305-9306
Pathology	Lisa D. Duncan, M.D.	305-9080
Radiology	Laura Findeiss, M.D.	305-9661
Surgery	Mitchell H. Goldman, M.D.	305-9244
General Dentistry	Olcie Lee Wilson, DMD	305-9440
Oral & Maxillofacial Surgery	Eric R. Carlson, DMD, M.D.	

The address to be used for Chairs at Knoxville is:

Graduate School of Medicine
University of Tennessee Medical Center
1924 Alcoa Highway, Box 94
Knoxville, Tennessee 37920

DESCRIPTION OF FOURTH YEAR

The fourth year is composed of 4-week required clerkships, one week of PCM, and 4-week electives. Clerkships allow for increased responsibility in patient care as well as the opportunity to pursue areas of individual interest. The electives provide students with the opportunity to select the clinical or basic science experiences to best meet their particular career goals.

Clerkships	Duration
PCM	1 week
Ambulatory Medicine	4 weeks
Senior Clerkship JI Medicine	4 weeks
Surgery Specialties	4 weeks
Specialty Clerkship (SPE)	4 weeks
Senior Clerkship JI (Any)	4 weeks
Capstone	4 weeks
Electives (N=4)	16 weeks
LSP	Longitudinal
Option Blocks	12

Any absence from a clerkship MUST BE approved by the clerkship director no later than 30 days BEFORE the clerkship begins. Students should not go to clerkship directors and indicate that airline tickets or other arrangements have been made and presume that permission will be granted. You should not make any reservations before getting APPROVAL of the clerkship director.

PCM-3002 Principles of Clinical Medicine VI (1 credit hour).

The PCM M-4 curriculum is designed as a Continuing Medical Education (CME) model. The goal is to provide direction for students to develop the skills necessary to become life-long learners and the ability to share their learning as effective teachers in both the academic as well as the community setting. Successful completion of the M-4 PCM will require 24 hours of CME credit, which will include both required and optional didactic and experiential components (preclinical courses and clinical rotations). The Directorate reserves the right to adjust the hour requirements for the future based on the results of this experience.

CLERKSHIP CHART

The required clerkships and elective rotations are shown below in the table. The number following the departmental designation indicates the city in which the clerkship is held (e.g., MED1, with the 1 indicating Memphis):

1 Memphis **2** Knoxville **3** Chattanooga **4** Nashville **5** Jackson

Senior Clerkship in Medicine Internal Medicine	Ambulatory Care	*Specialty Clerkship	Surgery Specialties	JI Any		Electives (16 weeks)
MED1-3002 MED2-3002 MED3-3002 MED4-3002	MED1-3003 MED2-3003 MED3-3003	SPE1-3001 SPE2-3001 SPE3-3001	SUR1-3002 SUR2-3002 SUR3-3002	FME1-3010 FME1-3012 FME5-3010 FME5-3033 MED1-3029 MED1-3030 MED1-3035 MED1-3036 MED1-3062 MED1-3063 MED1-3067 MED1-3110 NEU1- 3010 OBG1-3010 OBG1-3020 OTO1-3010 PED1-3010 PSY1-3010 PSY1-3011 PSY1-3030 SUR1-3012 SUR1-3013 SUR1-3014 URO1-3010	FME2-3010 MED2-3030 OBG2-3010 SUR2-3010 SUR2-3020 SUR2-3030 SUR2-3031 SUR2-3040 EME3-3030 FME3-3010 MED3-3010 MED3-3031 OBG3-3010 OBG3-3020 OBG3-3050 PED3-3010 SUR3-3010 SUR3-3030	4000 SERIES IN ANY DISCIPLINE (W/O SAME THIRD NUMBER IN SAME DISCIPLINE)

Specific dates for the senior year are shown in the [clerkship calendar section of the web site](#).

CLERKSHIP DESCRIPTIONS

MED1-3002/F - Senior Clerkship in Medicine (7 credit hours), clinical rotation.

The Senior Clerkship in Medicine places the student in a more direct role in patient care similar to an internship but closely supervised and directed. The senior clerkship student will record the principal data base (with resident or faculty review and counter signature), develop an evaluation and treatment plan, and write orders on patients (to be reviewed, altered if necessary, and signed by the resident or faculty prior to implementation). The student is introduced to responsibility for inpatient care in a setting in which the student is the initial evaluator of the patient's problems as outlined in the general instructions. The student develops conceptual and manual skills for evaluation and care of internal medicine patients and becomes more familiar in dealing directly with hospital and other paramedical personnel with appreciation of the team approach to patient care. The student participates in two-hour rounds at least four days per week with the attending physician assigned to the service and consults daily with the resident house staff on each assigned patient. This clerkship is also offered in Knoxville (MED2-3002/F), Chattanooga (MED3-3002/F), and Nashville (MED4-3002/F).

MED1-3003/F - Ambulatory Care (7 credit hours), clinical rotation. The objectives of the ambulatory clerkship are to provide: (1) the student with in-depth orientation to the evaluation, management and long-term clinical course of common medical problems which are handled by internists; (2) guidelines for recognizing common clinical problems which may be cared for in an ambulatory setting versus those which require hospitalization and/or referral for specialty or subspecialty care; (3) instruction in the unique principles of successfully providing medical care in the ambulatory setting; and, (4) instruction in health maintenance, disease prevention and relevant clinical epidemiology.

The student will work in a variety of clinical areas including general medicine clinics at The Regional Medical Center and Veterans Affairs Medical Center. There are also opportunities to participate in the Adult Special Care Clinic, Sickle Cell Clinic, Hypertension Clinic, and many of the subspecialty clinics such as Cardiology and Endocrinology. The student may spend some time with an internist in private practice. This clerkship is also offered in Knoxville (MED2-3003/F) and Chattanooga (MED3-3003/F).

SUR1-3002/F - Surgery Specialties (7 credit hours), clinical rotation. This clerkship exposes the student to the Surgery Specialties of Orthopaedics, Ophthalmology, Otolaryngology and Urology. This Clerkship is also offered in Knoxville (SUR2-3002/F) and Chattanooga (SUR3-3002/F).

Senior Clerkship (FME, MED, OB/GYN, PED, PSY/NEURO, SUR and URO) (3010/F to 3012/F) (7 credit hours), clinical rotations. Students are required to take a 4-week experience in any one of the core clerkships.

LSP-3004 Longitudinal Scholars Program - Longitudinal (7 credit hours – M1 1 hour, M2 1 hour, M3 1 hour and M4 4 hours)

(M1-M4 year, beginning with the Class of 2016) The Longitudinal Scholar's Project (LSP) clerkship is a longitudinal hybrid clerkship spanning the four years of medical school. The course will introduce medical students to three basic areas: health research, patient safety and quality improvement (PSQI) and community and global health. The clerkship involves a longitudinal project in one of the three areas and culminates in a graded poster presentation in the M4 year. Rather than have every student participate in each category, the clerkship provides the students with a foundation of basic understanding in research,

patient safety and quality improvement and community/global health through lectures, small groups and online modules, while requiring each student to do a project in only one area to be presented at any time during medical school. The poster may be presented at a committee approved poster venue. Outstanding work will be eligible for awards. You will receive a pass/fail grade for each year of medical school.

SPE1-3002/F - Specialty Clerkship (7 credit hours), clinical rotations. This clerkship is offered in each block throughout the calendar year. Students will have a week each in Anesthesiology, ICU, Palliative Care and Radiology during the four-week clerkship. The clerkship will be graded "Pass/Fail." If a student has had a month of Anesthesiology or a month of ICU, Cardiology or Infectious disease may be substituted. This clerkship is available in Knoxville (SPE2-3002/F) and Chattanooga (SPE3-3002/F).

Electives (7 credit hours each), preclinical courses and/or clinical rotations. Sixteen weeks of two-week (half-time) or four-week (full-time) elective work are required and normally taken during the senior year. Both basic science and clinical electives of varying lengths are offered in a variety of settings with maximal learning opportunities. During this time, each student has the opportunity to (1) select experiences that meet individual career goals, (2) study in depth in a clinical or basic science area, and (3) have increased responsibility in patient care under the direct supervision of the faculty. Electives are offered by The University of Tennessee, UT-affiliated hospitals, and (with approval) at other accredited medical schools.

ELECTIVES

With proper selection, the electives program provides a varied and appropriate educational experience. This imposes a high level of responsibility on each student and with the limited elective time available, each student is encouraged to seek advice from as many different people as is practical. Each student must obtain a passing grade (grade of "C" or better) in all electives.

Although prior approval by the course coordinator is not required for all electives, the responsibility of verifying the availability of an elective for a particular scheduling period rests with each student. For courses which indicate, "**Consent of Course Coordinator**" as a prerequisite, permission must be obtained from the course coordinator prior to scheduling.

A student may request an elective not currently listed in the Electives Catalog. Any specially designed elective requires approval of the involved faculty member, the appropriate departmental chair, and the Clinical Sciences Subcommittee. The Office of Medical Education and Faculty Affairs have forms available for this purpose. Since the approval process for a special elective could require considerable time, students are advised to begin this process well in advance of the time in which the requested elective is to be scheduled.

COUNSELING FOR CLERKSHIPS AND ELECTIVES

Departments have designated contact faculty for their educational programs. These faculty members should be your first point of contact in matters of specific departmental concern in the curriculum. In addition, administrative details can be handled by the contact person and a listing of these individuals follows the faculty list in this catalog.

CLERKSHIP LOCATIONS

Selected clerkships and electives may be taken in the College of Medicine at Memphis, Knoxville, Chattanooga, Nashville or Jackson. The sites at Knoxville, Chattanooga and Nashville offer a variety of clerkships, as well as clinical and basic science electives. Senior programs are available at all five (5) sites (although not in each discipline); the Neurology and Psychiatry Clerkship is available in Memphis only. The Surgery Specialties is available in Memphis, Knoxville and Chattanooga.

Note that not all electives are offered on a continuing basis. Students should refer to the individual elective description for this information.

OPTION PERIODS (OPM1-4001/F) OR OPTION HALF-PERIOD (OPM1-4001/H)

Students in the College of Medicine have sixteen option weeks in the fourth year. Students should use these option weeks to interview for residencies and other personal business. Jobs and/or non-credit work can be arranged during option weeks with faculty members. Any student interested in applying for a research award during option weeks should contact the Associate Dean for Research for additional information.

ELECTIVES AT OTHER INSTITUTIONS

Twelve weeks of electives may be taken by students at other institutions. Any student applying for an elective at another institution must be in good standing in the College of Medicine, have satisfactorily completed the core clerkships of the third year, and have permission from the appropriate clinical department chair as well as the Office of Medical Education. Electives at other institutions are normally taken for credit and, thus, tuition is paid at The University of Tennessee. The cooperating institution must be affiliated with an accredited medical school, must agree to accept and evaluate the student, and must certify that the elective being applied for is a regularly offered medical student elective at that institution.

An "Elective Away Application" form is available electronically at <http://uthsc.edu/Medicine/OLSEN/> under Away Rotation Forms or in the Office of Medical Education. **Students only need to complete this form if you are applying for elective work at an institution that is not participating in VSAS (Visiting Student Application Service).** This form must be completed and on file in the Office of Medical Education before the elective begins in order for formal academic credit to be awarded.

Students should first complete Section I of the form. The form is then taken to the respective UT Department for approval of section II and then taken to the Office of Medical Education (910 Madison, suite 1002) for approval of Section III. The student then mails the form to the Institution where the elective will be taken for approval of Section IV.

The process of arranging an elective at another institution should begin about six months prior to the block for which the elective is being requested. It is the responsibility of the

student to contact the appropriate institutions and complete all necessary forms for both institutions well in advance of the elective experience.

Be sure to honor the regulations and/or concerns of other institutions and preceptors. Your courtesy in this regard will be helpful to follow UT students also applying for elective experiences at these institutions.

Students who do an away elective (at another institution) must pick up an evaluation form from the Office of Medical Education, 910 Madison, suite 1002. **An evaluation of each student is required at the end of all away electives** and should be mailed to the Office of Medical Education by the appropriate person from that institution. Away application and evaluation forms can be downloaded <http://uthsc.edu/Medicine/OLSEN/>.

VISITING STUDENTS APPLICATION SERVICE

The Visiting Student Application Service (VSAS) is a new AAMC application designed to streamline the application process for senior "away" electives at other U.S. LCME medical schools. This service requires students to submit just one application for all schools, effectively reducing paperwork, miscommunication, and time. VSAS also provides a centralized location for managing offers and tracking decisions. It was created at the request of two GSA committees: Committee on Student Records (COSR) and Committee on Student Affairs (COSA). <http://www.aamc.org/programs/vsas/students/vsasstudent.pdf>.

NEW

Current Visiting Student Policy

The University of Tennessee, College of Medicine has elective opportunities available at its sites in Memphis, Knoxville, Chattanooga, Nashville, and Jackson for students from other medical schools. To be eligible for consideration, students must meet the following criteria:

- Visiting students must be candidate for the M.D. or D.O. degree in good standing in their final year of training in an accredited medical school or from institutions with which UTHSC has a formal exchange program.
- Visiting students shall be limited to a maximum of (12 weeks) of experiences at all UT medical campuses during their medical school career. Electives will be assigned to visiting students only after all University of Tennessee students have been scheduled
- All visiting students must have:
 - coverage for malpractice/liability insurance in the amount of \$1 million per incident and \$3 million aggregate from their institution or from acceptable other sources
 - health insurance
 - required immunizations for measles, rubella, influenza, and Hepatitis B
 - taken a TB skin test within the past year
 - been certified in CPR within the past year
 - Passed USMLE Step 1 or COMLEX Part 1
- Visiting students must have completed instruction in the basic physical examination and have a working knowledge of general ward procedures. All electives require that the student has completed the basic Family Medicine, Medicine, Neurology, Pediatrics, Surgery, Psychiatry, and Obstetrics-Gynecology clerkships. All students must have met the prerequisites of the clerkship to which they are applying. Any exceptions to this policy must be approved by the Dean of Medical Education, campus Associate Dean or their designee at the recommendation of the Department Chair or their designee.

VISITING STUDENTS HOUSING

- We recognize the challenge visiting students face in finding housing during away rotations and are pleased to share that the AAMC is showcasing a service that can help! [RotatingRoom.com](https://www.rotatingroom.com) is a free online service, designed exclusively for medical students, to find and offer short-term housing during away rotations. The website offers robust search and visualization, comprehensive property details, and additional information such as public transportation options to nearby hospitals. A short description and link to Rotating Room has been added to VSAS software.
- **Phi Chi Medical Fraternity** welcomes visiting students. 687 Jefferson Ave., Memphis, TN 38105 Email: phichihouse@gmail.com

DEPARTMENTAL CONTACT INFORMATION

The University of Tennessee, College of Medicine has elective opportunities available at its sites in Memphis, Knoxville, Chattanooga, Nashville and Jackson for medical students from other medical schools. Application is not available online. To request information, contact the following departments:

Core Clerkship Directors

College of Medicine - Memphis

Family Medicine

David Maness, M.D. (Interim)

Phone: 901-448-6028 (Kelly Shempert)

Email: dmaness@uthsc.edu

Contact: Marilyn Ward

Website: Family Medicine Clerkship

Contact Phone: (901) 448-6032

Medicine

Susan Brewer, M.D.

Phone: (901) 448-5506

Email: sbrewer@uthsc.edu

Contact: Pam Swann

Website: Medicine Clerkship

Contact Phone: (901) 448-6809

Neurology

William Pulsinelli, M.D.

Phone: (901) 448-6199

Email: wpulsinelli@uthsc.edu

Contact: Deborah Edwards

Website: Neurology Clerkship

Contact Phone: (901) 448-6971

OB-GYN

Thomas Elmore, M.D.

Phone: (901) 448-4785

Email: telmore@uthsc.edu

Contact: Martha Velez

Website: OB-GYN Clerkship

Contact Phone: (901) 448-5859

Pediatrics

Valerie P. Jameson, M.D.

Phone: (901) 287-6292

Email: vjameson@uthsc.edu

Contact: Jennifer Wilson

Website: Pediatrics Clerkship

Contact Phone: (901) 287-6292

Psychiatry

Renate H. Rosenthal, Ph.D.

Phone:(901) 448-4561

Email: rrosenthal@uthsc.edu

Contact: Terika Miller
Website: Psychiatry Clerkship
Contact Phone: (901) 448-4561

Surgery

Gayle Minard, M.D.
Phone: (901) 448-8370
Email: gminard@uthsc.edu

Contact: Courtney Bishop
Website: Surgery Clerkship
Contact Phone: (901) 448-8370

College of Medicine - Chattanooga

Family Medicine

J. Mack Worthington, M.D.
Email: Dr.JMack.Worthington@erlanger.org
Contact: Elissa McCoy
Contact Phone: (423) 778-2957

Medicine

Gary Malakoff, M.D.
Email: Gary.Malakoff@erlanger.org
Phone: (423) 778-2998
Contact: Joyce Poke
Contact Phone: (423) 778-6670

Neurology

Abdelazim Sirelkhatim, M.D.

Dr.Abdelazim.Sirelkhatim@erlanger.org

(423) 778-4660

Contact: Joyce Poke

Contact Phone: (423) 778-6670

OB-GYN

Jeanie Dassow, M.D.

Phone: (423) 778-5192

Email: Jeanie.Dassow@erlanger.org

Contact: Marcella Westmoreland

Contact Phone: (423) 778-7515

Pediatrics

Cathy Stevens, M.D.

Phone: (423) 778-6112

Contact: Nannette Lazo

Contact Phone: :(423) 778-6185 or

Contact: Patty Wolfe

Contact Phone: :(423) 778-6217

Psychiatry

Terry Holmes, MD

Email: terry.holmes@tn.gov

Contact: Crystal Champion

Contact Phone: (423) 785-3343

Contact: Joyce Poke

Contact Phone: (423) 778-6670

Surgery

Michael Greer, M.D.

Phone: (423) 778-7695

Email: Michael.Greer@erlangers.org

Contact: Gwen Fryar

Contact: Maggie Hamblen

Contact Phone: (423) 778-7695

COM Chattanooga Housing for Students

Tammy Elliott, GME Coordinator

Medical Education Office

UT College of Medicine Chattanooga

960 East Third St., Suite 104

Chattanooga, TN 37403

Phone: (423) 778-7442

Housing Requests: <http://www.utcomchatt.org/subpage.php?pageId=1053>

Radiology

R. Kent Hutson, M.D.

Kent.Hutson@erlangers.org

Contact: Marc Ann Skarda

Marc.Skarda@erlangers.org

(423) 778-7371

Note: Click on this link to access interactive Erlanger Maps for locations in Chattanooga- <http://www.pointsmap.com/erlangers/>.

College of Medicine - Knoxville

Family Medicine

M. David Stockton, M.D., M.P.H.

(865) 305-9352

stockton@uthsc.tennessee.edu

Contact: Missy Maples

mmaples@utmck.edu (865) 305-9618

Medicine

Janet Purkey, M.D.

Phone: (865) 305-6521

Email: jpurkey@utmck.edu

Contact: Missy Maples

Contact Phone:(865) 305-9618

Neurology

Upinder Dhand, M.D.

Phone: (865) 305-9340

Email: udhand@utmck.edu

Norm Walton, MD

Phone: (865) 305-9340

Email: nwalton321@comcast.net

OB-GYN

Nirmala B. Upadhyaya, M.D.

Phone: (865) 305-9306

Email: nbupadhy@utmck.edu

Contact: Missy Maples Phone:(865) 305-9618

Pediatrics

Shannon Cohen Haskins, M.D.

schaskins@comcast.net

Psychiatry

Brent Coyle, M.D.

brentcoyle@mac.com

Paul Miller, M.D.

paulwarrickmiller@yahoo.com

Surgery

James M. Lewis , M.D.

Phone: (865) 305-9294

Email: jmlewis@utmck.edu

Assistant: Christine Brown

Contact: Missy Maples

Contact Phone:(865) 305-9618

COM Knoxville Housing for Students

Ms. Missy Maples

Office of Student Affairs

Graduate School of Medicine @ UTMCK

1924 Alcoa Highway, Third Floor GSM Building, Room 327

Knoxville, TN 37920

Phone: (865) 305-9618

College of Medicine - Nashville

Medicine

Christopher Trabue, M.D., FACP

Email: chris.trabue@sth.org

Phone: (615) 284-55167

Contact: Tracy Bradley

Contact Phone: (615) 284-2522

Contact Fax: (615) 284-1694

COM Nashville Housing for Students

Ms. Jeanne Stoker

Baptist Dept. of Internal Medicine

University of Tennessee-Nashville

2000 Church St

Nashville, TN 37236

Phone: (615) 284-3353

OF SPECIAL NOTE

- **A STUDENT MUST BE OFFICIALLY ENROLLED IN AN ELECTIVE TO RECEIVE CREDIT!**
- **RETROACTIVE CREDIT WILL NOT BE GRANTED!**
- **CHANGES TO SCHEDULE**

Students should plan for their senior year in a thorough and adequate manner. Once the schedule is finalized, certain changes can be made depending on the availability, etc. Students will be allowed to make changes to respective programs in their academic schedule via the computer. ***SUCH CHANGES WILL ONLY BE ACCEPTED IF MADE AT LEAST ONE ENTIRE BLOCK PRIOR TO THE BLOCK WHEN THE SCHEDULED PROGRAM IS TO BEGIN (i.e. a program to be taken in Block 8 must be scheduled by the end of Block 6.*** The only exception to the time when the changes can be made will be in instances of illness, family emergency or academic deficiencies. **Again, the only changes allowed less than 1 block notice prior to the block when a program is scheduled will be because of illness, family emergency or academic deficiency circumstances.**

MEMPHIS ELECTIVES
Interdepartmental Electives

SPE1-3001/F - Specialty Clerkship (7 credit hours), this course is offered in the fall and spring. The course is a clinical rotation.

This clerkship will expose the student to a week each in Anesthesiology and ICU and 1-week in Palliative Care. Lectures will be provided in the morning on the first day of the clerkship on selected topics. If you have had a month of any of Anesthesiology or ICU, then you may substitute Cardiology or Infectious Disease for these. Palliative Care is required and cannot be substituted. The course will be graded "Pass/Fail". This clerkship is available in selected blocks in **Knoxville (SPE2-3001/F)** and **Chattanooga (SPE3-3001/F)**.

The first Monday of the clerkship you will have a mandatory orientation in which you will receive an email with the details of where to attend. You will report to the following locations all other days or as directed by personnel for each rotation. **If you have any questions about this clerkship please contact Kimerlee Norwood at Knorwood@uthsc.edu or 901-448-3843.**

Specialty Clerkship Site Reporting Locations

Specialty Clerkship	Reporting Location	Contact Info (in case of emergency)
Anesthesiology	OR 4 th floor Chandler Bldg 7:00 am You should receive an email a week prior w/ a schedule.	JoAn Young 901-448-5892 jyoung@uthsc.edu
Cardiology	NOTE: This week can only be taken if you have completed a month of ICU or Anesthesiology and would like to substitute for one of those weeks. **Contact Ms. Coleman the week prior to your rotation for your assignment.	Brenda Coleman 901-448-5750 Bcolema4@uthsc.edu 0
ICU – ALL Please note.	NOTE: For ALL the ICU rotations, "Students should report daily to the ICU (Monday through Sunday), as noted below. You may leave around 6 PM (unless the day's work is not finished). There is no night call."	
ICU - MED	Report to the General ICU on the 4th floor of the MED at 7AM and ask one of the nurses to page the Critical Care ICU fellow at 901-448-5757.	Bernice Fenner 901-448-6820 bfenner@uthsc.edu
ICU - PEDS	Report at 7:00 am to the PEDS ICU on the 2 nd floor at LeBonheur. Ask either the attending physician or the attending fellow what your assignment is (there are no names because these change frequently).	Jennifer Wilson, Pediatric Student Coordinator 901-287-6292 jmacadoo3@uthsc.edu
ICU - Trauma	Report to the Trauma ICU, on the ground floor of the Jefferson Building of the Regional One Health, on Monday at 6:45 AM. Page the TICU resident if he/she is not immediately available at pager 790-9000.	Gayle Minard, MD 901-448-8370 gminard@uthsc.edu
ICU – VA Med	Report to the VA Med ICU at 8:00 am. Ask for the Pulmonary Critical Care fellow at 901-448-5757.	Bernice Fenner 901-448-6820 bfenner@uthsc.edu

ICU – VA Surg	Report to the Surgical ICU, on the third floor of the bed tower of the VA, on Monday at 6:00 am. Page the SICU resident if he/she is not immediately available at pager 577-7288, pager 170.	Gayle Minard, MD 901-448-8370 gminard@uthsc.edu
Infectious Disease @ Med/VA	NOTE: This week can only be taken if you have completed a month of ICU or Anesthesiology and would like to substitute for one of those weeks. Kimberlee Norwood will give to you at orientation beeper number to contact about one week before the block. Report to the assigned by 7:00 am on Monday of your rotation week.	Faculty contact: Dr. Susan Brewer sbrewer@uthsc.edu
Palliative Care @ Methodist Alliance	Methodist Alliance Hospice 6400 Shelby View Drive, Ste 101 Memphis, TN 38134 901-516-1600 Report according to the schedule you received.	Catina Price Catina.price@mlh.org 901-516-1614 If you are unable to make it, call Dr. Clay Jackson @ 901-481-0110 or email in advance to mydocjackson@live.com
Radiology	Meet in the conference room of 910 Madison Ave, 3 rd floor at 10:00 am on Monday of week.	Courtne Holliday Chollid3@uthsc.edu 901-448-8250

Regional One Health Scrubs: You are required to wear Regional One Health issued scrubs on the Anesthesiology rotation. You will get these from the Scrubex machine at the Regional One Health. You will need to submit a scrub request form to Jeanette Love at jlove@the-med.org or call 901-545-8477.

SPECIALTY CLERKSHIP OBJECTIVES

Anesthesiology

Objective: The student will be introduced to the principles of airway management and preoperative anesthesia management in Anesthesiology.

Special considerations: Assignments made for five days of the week in Medical Center Area.

ICU

Objective: In ICU, the student will learn about the basics of mechanical ventilation and the hemodynamics in the monitoring of the patient.

Special considerations: **One student each can select among assignment to Regional One Health (Dr. Brewer), VA Med (Dr. Brewer), Trauma (Dr. Minard), VA Surg (Dr. Minard) and Peds (Dr. Jameson).** Assignments will be for seven days and run from Monday thru Sunday.

Palliative Care/End of Life

Objective: As a result of spending one week on Palliative Care/End of Life service students will experience a multidisciplinary approach to symptom and pain evaluation and management in patients with advanced illnesses, and be able to improve the quality of care for patients by setting realistic treatment goals for patients and their families. The student will gain awareness of ethical and legal issues of patients and their caregivers during advanced illness. The student will gain an understanding of working with an interdisciplinary team (IDT). Students are REQUIRED to conduct home visits during this rotation.

Special considerations: Assignments will be Monday thru Friday with some on-call status, evenings and week-end.

Radiology

Objective: Radiology is a vast field in which students will learn basics in analysis of fetuses, children and adults using plainfilm, fluoroscopy and cross-sectional imaging. There will be nightly readings, various activities (group and individual), lectures, rotations in clinical reading activities and clinical conferences, and will culminate in a case presentation at the end of the week. This is a brief introduction to clinical imaging.

Special considerations: Assignments will be Monday thru Friday.

ID - Infectious Disease

Objective: The Infectious Disease rotation is designed to familiarize students with the evaluation and management of adult infectious diseases, and antimicrobials and their clinical use. Elements of clinical microbiology and epidemiology (especially hospital epidemiology) will be incorporated in the preceptorship, including review of stains, cultures, susceptibility, data, etc. The student will be responsible for initial evaluation of all patients. They will follow the patients daily, formulate plans of management and, under the supervision of a resident and attending, will write orders and notes on all infectious disease service patients. They will review stains, cultures, etc. daily on all patients.

Special considerations: Assignments made for five days of the week in Medical Center Area.

Cardiology

Objective: This rotation is designed to introduce the student to the wide array of diagnostic and therapeutic techniques used in contemporary cardiology practice. The elective will emphasize increasing knowledge in the areas of cardiac history-taking and physical examination of the cardiovascular system by working with faculty to provide cardiology consultations. As time permits, the student will also observe in the electrocardiographic, exercise testing, ambulatory ECG, echocardiographic and nuclear cardiology laboratories. Conferences will include 3 weekly cardiology conferences (Monday, Tuesday, and Friday), Medical Grand Rounds (Wednesday) and cardiac catheterization conference (Tuesday).

Special considerations: Assignments made for five days of the week in Medical Center Area.

IDE1-4001/F SPECIAL ELECTIVE

Course Coordinator: Dr. Robert Shreve

Locations: Varies

Size: 999

This course number is used for scheduling a special elective which has no course description in this catalog. Final scheduling of such is done only through the Office of Medical Education and Faculty Affairs. This course should be scheduled like any other course on the computer. **This elective can be half-time (IDE1-4001/H). This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.**

IDE1-4040/F CAPSTONE COURSE

Course Directors: Dr. Susan Brewer

Course Coordinator: Deborah Barton, MBA (dedwar30@uthsc.edu 448-5506)

Maximum-35

Minimum-12

Grading-P/F

This is a face-to-face clinical rotation offered in Block 3, Block 8, Block 10, and Block 1 and awards 7 credit hours.

The Course includes:

1. Back to Basics.edu- more opportunities to review basic science concepts in the framework of clinical cases
2. Business of Medicine- TBL's using the HealthCare Handbook written by medical students Askin and Moore. Guest faculty will discuss health care reform, insurance, regulatory agencies and being a member of a hospital staff
3. EBM-Improve your skills in searching the literature to answer clinical questions
4. Ethics-Review of concepts plus discussion of cases you have encountered.
5. Intern school-Focus on skills to prepare students for life as a house officer, including radiology review, ECG review, what to do on call, line placement and intubation skills, and the opportunity for ACLS certification.
6. Legal Issues in Medicine series from Dr. Carol Schwab
7. Teaching-Academy- learn teaching and learning techniques for residency and beyond; the Five-minute preceptor, how to give feedback, and other teaching techniques

IDE1-4060/F BIOETHICS AND THE LAW

Course Coordinator: Haavi Morreim, J.D., Ph.D.

Location Classroom instruction

Size: 20 (Minimum of 5)

Note: Offered in Block 4 only

This is a face-to-face clinical rotation offered in the spring and receiving 7 credit hours.

The student will learn about pivotal cases in which modern bioethics emerged from case law, and how law has been shaped by bioethics, in 4 areas:

- informed consent
- end of life
- human subjects research
- managed care, health care organization and finance

The student will also gain a basic understanding of how to read caselaw—to discern what the issues are, and what the court's holding is (and is not)—and will learn how to read selected statutes applicable to medicine.

The course will feature a combination of discussion and lecture. Students will first discuss the scenarios and issues raised by classic legal cases in bioethics, and then will learn how each case was in fact adjudicated and why. For several cases, videos of actual events will lend an extra note of reality to the conversation. In the process we will explore how courts address cases that pose new and difficult bioethical issues. We will also learn how to distinguish between issues the court actually addressed, versus other important questions not before the court and not decided by the court. Appreciating that distinction is a basic skill that will help the student to discern, going forward, what a court did or did not say in highly publicized court decisions that affect medicine and health care. In addition the class will review a few statutes that attempt to address important bioethics issues (e.g. the Tennessee Health Care Decisions Act, which addresses advance directives, capacity assessment, surrogacy appointments and the like).

The class will meet half-days/mornings, 4 days/week; readings will be drawn largely from case law and from medical and bioethics journals.

IDE1-4061/H CONFLICT RESOLUTION AND COMMUNICATION CHALLENGES IN HEALTH CARE

Course Coordinator: Haavi Morreim, J.D., Ph.D.

Location: Classroom instruction

Size: 12 (Minimum 4)

**NOTE: Half-time only and offered only in Blocks 2 (1st half) and 8 (1st half)
This is a face-to-face clinical rotation receiving 3.5 credit hours.**

The student will learn communication skills for undertaking especially difficult conversations, e.g.:

- disclosing bad news
- disclosing error/unanticipated adverse outcome
- disagreements about optimal medical management.

The student will also learn mediation skills helpful to resolving contentious situations, e.g.:

- leading care conferences where the patient's best interests are in dispute;
- participating in negotiations for early resolution of potential med-mal situations.

The instruction will feature some lecture-time, but will mainly emphasize learn-by-doing. Instruction will initially familiarize students with a "toolbox" of skills essential to conflict resolution and communication, then integrate those skills into a variety of simulation exercises. All simulation scenarios will be based on real cases, and each practice simulation will be followed by in-depth debriefing with extensive feedback to students. Portions of the training will be based on similar modules taught by Vanderbilt University's Center for Patient and Professional Advocacy (e.g., disclosing error/adverse outcome; dealing with colleagues' disruptive behaviors). Other elements of instruction will be based on traditional mediation, communication, and conflict resolution skills as adapted specifically to health care.

The class will meet half-days/mornings for 4 days/week. Class attendance is crucial to this type of curriculum, hence will be required. Reading assignments will be moderate but important to enriching and integrating in-class activities.

Dr. Morreim is a Tennessee Supreme Court Rule 31-Listed Mediator for both civil and family matters, and is experienced in mediating conflicts ranging from health care and 'bioethics

mediation', to landlord-tenant, employment, real estate, contract, debtor-creditor and other litigated conflicts. She is also a Vice-Chair of the American Bar Association's Task Force on Dispute Resolution in Health Care. Additionally, Dr. Morreim is Vice-Chair of the American Health Lawyers Association's ADR Affinity Group (ADR: Alternative Dispute Resolution).

IDE1-5050/F LEGAL ISSUES IN HEALTH CARE

Course Coordinator: Carol A. Schwab, J.D., LL.M.

Location: Classroom instruction

Size: 16 students per Block - a minimum of 4 students is needed for the class to go forward (Additional students may be accepted in the class at the discretion of the course director)

This is a face to face clinical rotation offered in the spring and receiving 7 credit hours.

NOTE: Offered in Blocks 2/2016 and 4/2016

The goal of this elective is to prepare future physicians to meet the legal challenges that will face them in the practice of medicine. Using a team-based, case study method, students will be able to identify, describe, and apply basic legal/medical principles, including the physician-patient relationship, consent, confidentiality, medical records, competency, surrogate decision-makers, reporting communicable diseases, advance directives and other end-of-life documents, liability and risk management, the legal issues of mental health, the business side of medicine, physician-hospital relationships, and prescribing practices. The method of instruction relies heavily on team-based learning principles, but includes interactive lectures and group discussion. Students are expected to attend the 16 class sessions of 3 – 3½ hours each. Class is usually held in the afternoons, Monday through Thursday, although this is subject to change when necessary due to weather, etc. Class participation counts heavily in the final grade, and attendance is expected.

Objectives: Students will be able to (1) identify basic legal/medical issues that may arise in the care and treatment of patients; (2) describe the legal /ethical consequences of failing to conform to accepted standards of practice; (3) improve risk management techniques employed in their practice; and (4) minimize the potential for lawsuits and/or disciplinary actions filed against them. Activities and resources will consist of online tutorials; interactive lectures, case studies, small group discussions, independent study, team-based Wiki case studies, a team-based exam and an individual exam. **This is a face to face clinical rotation offered in the spring and receiving 7 credit hours.**

IDE9-4010/F INTERNATIONAL HEALTH STUDIES

Course Coordinator: Dr. Robert Shreve

Location: Varies

Size: Variable

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective will involve the student in specifically designed and approved experiences in other countries. Opportunities to gain first hand knowledge of health care systems, diseases, and/or research will be available. **Students must complete a summary of this elective before a final grade is awarded.** Contact office of Medical Education for further information.

OPTION MONTH

OPM1-4001/F OPTION MONTH

This course number is used for scheduling option (vacation) months in which no academic credit is earned. Option months should be scheduled like any elective except that only one choice is necessary. This option can be scheduled half-time (OPM1-4001/H).

DEPARTMENT OF ANESTHESIOLOGY

ANE1-4010/F CLINICAL ANESTHESIOLOGY

Course Coordinator: Dr. Felice Ann Vabnick-Wener

Location: Regional One Health

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: No longer available during the 2015-2016 terms

This is a basic elective designed to orient the student to the management of the surgical patient in the operating suite. Clinical instruction in the assessment and basic management of the surgical airway, intravenous access, and acute pain will be provided under the direct supervision of anesthesia staff. Basic physiology, effects of co-existing disease, pharmacology, and intubation techniques will be emphasized. Daily lecture topics relevant to anesthetic management will be offered. Students will be expected to be equipped with a personal stethoscope and change out to appropriate OR attire.

ANE9-4010/F VISITING ELECTIVE IN ANESTHESIOLOGY

Course Coordinator: Department Chair

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC.

DEPARTMENT OF FAMILY MEDICINE

Junior Internship Rotation's JI's

FME1-3001/F FAMILY MEDICINE CLERKSHIP

Course Coordinators: Dr. David L. Maness

Location: Memphis

Size: 25

This is a face to face clinical rotation offered in the fall and spring and receiving 14 credit hours.

Core Clerkship in Family Medicine (14 credit hours). The Family Medicine Clerkship is an eight-week clinical experience during which time students participate in a unique breadth of patient care in the context of family and community.

Students experience traditional office-based practice under the supervision of UT Family Medicine preceptors. With the office practice as a base, the family physician serves all aspects of patient care involving both inpatient and outpatient settings, ranging from the hospital to the nursing home. Students are placed with family physicians that practice the full breadth of the discipline, including obstetrical care, whenever feasible. Typically, students spend four weeks in an outpatient setting, and four weeks in an inpatient setting.

The department maintains a wide array of approved clinical training sites throughout the state of Tennessee and works closely with students to identify mutually agreeable clinical assignments. The clerkship is a full-time learning experience, typically mirroring the family physician preceptor and may include weekend responsibilities and night call. During the eight weeks, students have several assignments to complete including an Evidence-Based Medicine PowerPoint presentation, as well as assigned readings.

For additional information, please contact Sharon Tabachnick, Ph.D., Preceptor Coordinator (stabachn@uthsc.edu, 901-448-7574). This clerkship is also offered in Knoxville (FME2-3001/F) and Chattanooga (FME3-3001/F).

FME1-3010/F JI ANY - SENIOR CLERKSHIP

JUNIOR INTERNSHIP IN FAMILY MEDICINE

UT/ST. FRANCIS HOSPITAL RESIDENCY PROGRAM*

Course Coordinators: Dr. David L. Maness

Location: Memphis, TN

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This rotation will allow students to obtain a broad-based experience in Family Medicine. Students on the inpatient hospital service will function as junior interns and admit patients, design treatment plans and follow these patients throughout their hospital stay. Students generally spend one week on the medicine service, one week on the obstetric service, one week on the night float service, and one week in the Family Medicine Clinic, with Family Medicine residents and supervisors. Students will also spend time in our ambulatory procedures clinic, learning an introduction to office ultrasound, colposcopy, and office based surgical procedures. Attendance at teaching conferences and night call enhance the experience of an active family practice. For additional information, please contact Sharon Tabachnick, Ph.D., Preceptor Coordinator (stabachn@uthsc.edu, 901-448-7574).

FME1-3012/F JI ANY - SENIOR CLERKSHIP-JUNIOR INTERNSHIP IN FAMILY MEDICINE COMMUNITY-BASED CLINICS*

Course Coordinators: Dr. David L. Maness

Location: Varies

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Not available in Block 12

This clerkship allows students to function as junior interns by assuming substantial patient responsibility on an outpatient and/or inpatient teaching service. Also available to students may be office exposure to colposcopy, flexible sigmoidoscopy, and endoscopy, Ob-Gyn, and office surgical procedures. Responsibilities may include admissions, histories, physicals, daily notes, treatment plans, and written orders to fulfill treatment plans. Students will be supervised by family practice clinical faculty. They will also be required to attend rounds, conferences, and take call. For additional information, please contact Sharon Tabachnick, Ph.D., Preceptor Coordinator (stabachn@uthsc.edu, 901-448-7574).

FME5-3010/F JI ANY - SENIOR CLERKSHIP-JUNIOR INTERNSHIP IN FAMILY MEDICINE-JACKSON-MADISON HOSPITAL RESIDENCY PROGRAMS*

Course Coordinators: Dr. Gregg Mitchell, Dr. Keith Ellis and Dr. David L. Maness

Location: Jackson, TN

Size: 3

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

NOTE: "Enrollment for this requires approval by faculty at Jackson TN. Please email Heather Cavness at hgreenwa@uthsc.edu for details."

This clerkship allows students to function as junior interns by assuming substantial patient responsibility on an inpatient teaching service. Also available to students may be office exposure to colposcopy, dermatology evaluations, and office surgical procedures. Responsibilities may include admission, histories, physicals, daily notes, treatment plans and written orders to fulfill treatment plans. The inpatient experience will be complemented with ambulatory patient care in the Family Medicine centers. Students will be supervised by residents and Family Medicine faculty. They will also be required to attend rounds, conferences and take call.

FME5-3033/F JI - SENIOR CLERKSHIP IN EMERGENCY MEDICINE

Course Coordinators: Dr. Gregg E. Mitchell, Dr. Keith Ellis, Dr. Mike Revelle, and Emergency Medicine Fellows

Location: Jackson, TN

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

NOTE: "Enrollment for this requires approval by faculty at Jackson TN. Please email Heather Cavness at hgreenwa@uthsc.edu for details."

This clerkship provides medical students the opportunity to gain clinical primary care training under Family Physicians supervision in the hospital emergency department for the care of ambulatory patients with emergency and life threatening problems. We have a one year fellowship program to train family physicians in emergency medicine care that the student will work closely with. The number of patients per week for whom the student will have some responsibility is 25-50. The student will be able to formulate assessments of patients and present to the emergency department

staff physician along with plan of treatment and disposition. Students will be exposed to adult medicine, pediatrics, OB/GYN, surgical, and behavioral emergencies. Patient selection will be determined by supervising faculty to conform to all emergency department regulations. Attending physician faculty and emergency medicine fellows will always be present and provide direct supervision. The students will perform appropriate logs and course evaluation reports. The usual schedule may vary, but will include a total of 160 contact hours by working 10 to 12 hour shifts.

FME1-4010/F FAMILY MEDICINE COMMUNITY PRECEPTORSHIP

Course Coordinators: Dr. David L. Maness

Location: Varies

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The primary purpose of this preceptorship is to allow fourth year medical students active participation in ambulatory and/or hospital patient care in a family practice setting. These settings may include rural or urban areas of Tennessee. They will share in the care of the preceptor's patients through the clinical management of family practice patients. Students' responsibilities will include patient workups, histories, physical examinations, and review of laboratory and diagnostic data. The student will be directly supervised and guided through this process by members of the clinical faculty and approved preceptors. Students can expect opportunities for "hands on" experiences and for improving their clinical skills, both in history taking and physical and laboratory examination as these pertain to medical problems common to Family Medicine. For additional information, please contact Sharon Tabachnick, Ph.D., Preceptor Coordinator (stabachn@uthsc.edu, 901-448-7574).

FME9-4010/F VISITING ELECTIVE IN FAMILY MEDICINE

Course Coordinators: Dr. David L. Maness

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC. UT Family Medicine Department is happy to share resources and provide personal assistance in locating and scheduling off campus electives in Family Medicine at other medical schools and Family Medicine Residency Training Programs throughout the nation. For additional information, please contact Sharon Tabachnick, Ph.D., Preceptor Coordinator (stabachn@uthsc.edu, 901-448-7574).

DEPARTMENT OF MEDICINE

MED1-3001/F MEDICINE CLERKSHIP

Clerkship Director: Dr. Susan C. Brewer

Location: Memphis

This is a face to face clinical rotation offered in the fall and spring and receiving 14 credit hours.

NOTE: Must pass core clerkship to schedule any senior clerkship in medicine

Core Clerkship in Medicine (14 credit hours). The clinical clerkship in medicine is designed to provide the medical student with an opportunity to learn by experience in patient care and by the examples set by the faculty and house staff. The student is a participating member of the clinical team responsible for patient care which includes residents and the attending physician. A student is expected to: (1) acquire skill and efficiency in history taking and physical examinations, in technical procedures, in the assembly and interpretation of laboratory data, and in patient diagnosis and management; (2) apply to clinical problems the knowledge and facts acquired in the biomedical sciences; and (3) read current medical journals as well as textbooks. Each student is assigned to the University Medical Services at the Veterans Affairs Medical Center, the Regional One Health or Methodist University Hospital for the eight-week rotation. At the mid-point of the clerkship, each student will switch from one hospital assignment to another. Alternatively, students may rotate through Baptist Hospital in Nashville for four weeks of their rotation (Nashville MED4-3001/F). This clerkship is also offered in Knoxville (MED2-3001/F), and Chattanooga (MED3-3001/F).

SENIOR CLERKSHIPS IN MEDICINE (3000 SERIES)

Senior Clerkships Coordinator: Dr. Susan C. Brewer

The student will be introduced to responsibility for inpatient care in a setting where the student is the initial evaluator of the patient's problems as outlined in the general instructions. The student is expected to develop conceptual and manual skills for evaluation and care of internal medicine patients and become more familiar in dealing directly with hospital and other paramedical personnel with appreciation of the team approach to patient care. The student will participate in rounds at least four days per week with the attending physician assigned to the service and will consult daily with the resident house staff on each assigned patient.

The student will attend Medical Grand Rounds every Wednesday and House Staff conferences on Monday, Tuesday, Thursday and Friday. The student will have responsibility for attending patients admitted to his or her assigned service and their on-going care while in the hospital. Where assignments involve subspecialty services, the student will be responsible for all medical aspects of patient's care which will be the primary goal of this experience. For in-depth study of a medical subspecialty students should refer to individual specialty listings of preceptorships or research electives. NOTE: Not available in December as only senior clerkship.

MED1-3002/F MEDICINE REQUIRED SENIOR CLERKSHIP (INTERNAL MEDICINE)

Size: 11

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Student can also complete these required clerkships at the Chattanooga, Knoxville or Nashville units.

MED1-3003/F MEDICINE REQUIRED SENIOR AMBULATORY CLERKSHIP**Size: 14****This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.****JI ANY****These are face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.**

MED1-3029/F JI ANY - CRITICAL CARE MEDICINE (ICU)	Location: Methodist	Size: 3
MED1-3030/F JI ANY - EMERGENCY MEDICINE	Location: Methodist	Size: 2
MED1-3035/F JI ANY - CRITICAL CARE MEDICINE (ICU)	Location: Regional One Health	Size: 2
MED1-3036/F JI ANY - CRITICAL CARE MEDICINE (ICU)	Location: VAMC	Size: 2
MED1-3062/F JI ANY - CARDIAC INTENSIVE CARE UNIT	Location: VAMC	Size: 1
MED1-3063/F JI ANY - CARDIOLOGY	Location: VAMC	Size: 1
MED1-3067/F JI Any – Cardiac Acute Intensive Care	Location: Regional One Health	Size: 2
MED1-3110/F JI ANY – HEMATOLOGY/ONCOLOGY	Location: Methodist	Size: 1

GENERAL DESCRIPTION OF ELECTIVES

The Department of Medicine electives are designed not only for those who wish to pursue a career in internal medicine or general practice but for all students who wish to ensure a firm grounding in clinical skills and in the comprehensive workup of patients. There are three types of rotations offered as indicated below:

1. Required Senior Clerkship in Internal Medicine (MED1-3002/F)

This required clerkship is an in-patient rotation in which the student functions as a junior intern. The student will assume responsibility for patient care under the supervision of their resident and attending physician. Emphasis will be placed on improving diagnostic and therapeutic planning and extending patient management skills acquired during the junior medicine clerkship. The outpatient and inpatient medicine rotations will be complementary, allowing the student to experience and benefit from the full spectrum of internal medicine.

2. Required Senior Ambulatory Clerkship in Medicine (MED1-3003/F)

This 4-week required clerkship will be an opportunity for the student to learn more about the evaluation, management, and long term clinical course of common medical problems handled by Internists in an ambulatory setting. The primary objectives are: 1) to provide guidelines for recognizing clinical problems which may be handled in an ambulatory setting versus those which require hospitalization and/or referral for specialty or subspecialty care; 2) to provide instruction in the unique principles of successfully providing medical care in the ambulatory setting; and 3) to provide instruction in health maintenance, disease prevention, and relevant clinical epidemiology. The student will have the opportunity to work in a variety of clinical areas including general medicine clinics at Regional One Health and Veterans Administration Hospital. There will also be opportunities to spend time in the private offices of internists practicing in the community, and to interact with other health care providers that are instrumental in the delivery of medical care in an

ambulatory setting. The student can also complete this required clerkship at the Chattanooga, Nashville, or Knoxville medical units.

3. Senior Clerkships in Medicine (3000 Series) (Non-Required)

Senior Clerkships in Medicine are intended to put the student in a more direct role in patient care similar to internship but closely supervised and directed. It is expected that the senior clerkship student will be responsible for recording the principal data base (with resident or faculty review and counter signature), developing an evaluation and treatment plan, and writing orders on patients (to be reviewed, altered if necessary, and signed by the resident or faculty prior to their implementation). These senior clerkships may be either in general internal medicine, an experience similar to the required senior medicine clerkship, or in subspecialty medicine (MED1-3029/F to MED1-3110/F); however, whether on general medicine or subspecialty ward, the student's responsibility is for learning about the care of patients from the overall viewpoint of internal medicine rather than specifically studying a particular internal medicine subspecialty.

4. Preceptorial Electives (4000 Series) To obtain closer rapport with members of the department's faculty, preceptorial electives are strongly recommended, not only for learning a categorical specialty or discipline but to study with an older more experienced student of medicine, namely a member of the full-time faculty or other selected faculty who can teach evaluation, investigation, and integration of medical information. Thus, the major goal of this experience is for students to learn how the faculty member studies medicine and to begin to be an independent student in the clinical setting. Students will see and study patients on an inpatient or outpatient basis will attend conferences, will participate in research, or some combination depending upon the student and faculty member's agreement. The student will also be expected to carry out a review of a clinical topic, mechanism of disease, therapy, or something related to the preceptor's field and to make a presentation to the faculty member or in a seminar or other appropriate forum.

5. Fellowships in Research (4000 Series ending in 9) The purpose of these electives are to introduce students at an early stage in their career to the methodology of clinical investigation. Students should apply to one of the faculty supervisors listed under the divisional subspecialty programs for this elective to develop a specific project. Students can consider linking this scheduled elective in tandem with off-quarter research stipend supported work if a longer period to develop a research project is desired. However, only the scheduled elective time (without stipend) can be given formal academic credit.

Research electives (Fellowships) in the Department of Medicine are available in all subspecialty divisions, for one to three months in duration. Arrangements should be made directly with the preceptor at least one month prior to the rotation. Course numbers are as follows:

MED1-4119/F Infectious Diseases

MED1-4129/F Nephrology

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

For more information about any of the electives or for information about when and where to report call:

Required Senior Clerkship	448-6809
Required Ambulatory Clerkship	448-6820
VA Medical Service	577-7255
Methodist Hospital Education Office	516-8255
Nashville Baptist Hospital	(615)284-2522
Cardiology	448-5750

Dermatology	448-5795
Endocrinology	448-5318
Gastroenterology	448-5813
Hematology/Oncology	448-5798
Infectious Disease	448-5770
Nephrology	448-5764
Pulmonary/Critical Care Medicine	448-5757
Rheumatology	448-5774
Physical Medicine	722-5885

EME1-4010/F EMERGENCY MEDICINE AND TOXICOLOGY

Course Coordinator: Dr. Chantay Smartt

Location: The Med Emergency Department

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The medical student will gain supervised hands on experience in the practice of emergency medicine. There will be opportunities to learn both about clinical and research opportunities in the field. The student will be involved in the rapid assessment and initial management of patients presenting to the emergency department. They will be able to design treatment plans and interact with emergency room personal including house staff, EMT's and nurses. Based on availability the student will have the opportunity to do procedures common to the emergency department, including thorecentesis, lumbar puncture, central line placement, parecentesis, blood gas collection, intubation and suturing. All student assessments, procedures and other activities will be directly supervised by full time emergency medicine department attending physicians. Emergency medicine morning reports and conferences are held in the emergency department 3 to 4 days per week (8am-8:30am). Students are also encouraged to attend general medicine conferences as their schedule allows. Upon request, the department research director can provide information and/or hands on experience in both clinical and basic research in emergency medicine and toxicology. The clinical experience will be approximately 36-40 hours per week. The bulk of the shift will be week days (7am-3pm) or evenings (3pm-11pm) based on the schedules of the full time staff.

EME1-4033/F EMERGENCY MEDICINE ELECTIVE - MUH

Course Coordinators: Alan Taylor, MD and Richard Walker, MD

Location: Methodist University Hospital (MUH)

Size: 6

This is a face to face clinical rotation offered in all blocks except 2, 3, and 7

Patient Care: Demonstrate compassionate care of the patient and professional interaction with the patient and family. Demonstrate the ability to take a focused but complete H&P, formulate a differential and order appropriate studies to confirm the diagnosis. There are opportunities for common Emergency Medicine procedures, including: endotracheal intubation, lumbar puncture, central and peripheral venous access, tube thoracostomy, paracentesis, NG placement, regional blocks, G-tube replacement, Foley catheter placement, nasal packing, suturing, splinting, diagnostic and procedural ultrasound use, and other basic and extraordinary procedures deemed appropriate by attending staff. At all times, your attending physician will be present to provide demonstrations, teaching and supervision.

Medical Knowledge: Demonstrate core knowledge of common Emergency Medicine complaints such as altered mental status, chest pain, abdominal pain, difficulty breathing, etc.

during the rotation. Attend and participate in weekly conferences. Successfully complete the student clerkship written examination with greater than 80% accuracy. There is a weekly small conference with lectures available to the students. They are expected to attend at least 75% of the conferences, though special exemption by the clerkship coordinator(s) may be made for scheduling reasons.

Practice Based Improvement- Demonstrate the application of evidence based medicine to patient care to improve patient safety, reduce unnecessary expense, facilitate ED flow and provide internal improvement of patient care by formal review process. Students will choose one patient interaction to review with a faculty member formally, after instruction with a prior similar chief complaint, to determine if their care could be improved and would meet "standard of care" within the setting of the Emergency Department.

Inter-professional and Communications Skills: Directly contact consultants and admitting services giving appropriate Situation reports, Background of the case, and Recommendations for care. Work with these services to facilitate flow of patient care within the hospital. All of these interactions will be supervised by an attending and, where applicable, a resident. One interaction will be formally graded after the student has had a chance to receive instruction and has had opportunity to provide case presentations to consulting services.

Professionalism:

Students will be evaluated on their interactions with the patient, family, nursing and support staff, fellow emergency practitioners, and consultants and admitting services. A professional, courteous, and dedicated work ethic is required. Students are expected to show up for shifts on time and see a reasonable number of patients. Students are expected to see and follow through on a minimum of 5 new patients per ten hour shift.

Systems Based Practice:

The Emergency Department is the most integrated rotation for systems based practice. Interaction with all medical services in the hospital occurs, but, as importantly, so does interaction with bed control, support services (such as respiratory therapy), nursing administration, general administration, environmental services, and every other logistical component of the hospital. Students will get an introduction to the proper use of consultants as well as the proper triage of patients to ensure, firstly the patient's safety, but also the flow of patient care in the hospital as whole. No other rotation emphasizes system wide resource utilization and allocation of resources quite like the Emergency Department.

Summary:

The student will have the initial contact with the patient, obtain and evaluate their chief complaint, perform a focused medical history, present this case to an attending physician or resident physician and develop a differential diagnosis and plan for the patient under the direct supervision of the attending physician who will be available at all times. The differential diagnosis will be investigated with the appropriate studies approved by residents and attending, and treatment will be provided based on active attending oversight. Students are expected to perform a routine H&P on non-critical patients without the attending present at the bedside, but this will always be verified by the attending and reviewed in every case with the student. Students will participate in care from initial contact to final disposition of the patient. There is no call schedule. Students are expected to be scheduled for 16 shifts per month; none longer than 10 hours in duration with up to 2 hours overflow to complete paperwork if needed. They are expected to attend lecture and simulation/lab teaching session. Shifts may be a mix of day, evening, and night. This rotation will provide useful skills and techniques to all medical students preparing for their intern year, not just future Emergency Medicine physicians.

MED1-4020/F CLINICAL DERMATOLOGY

Course Coordinator: Dr. Kathryn Schwarzenberger

Location: Varies

Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Students will spend full time with dermatology residents and staff. After attending dermatology clinics, rounds, and conferences, and after an estimated 20 hours of home study, the student should be able to cope with all skin problems normally encountered in family practice and should be able to provide definitive care for at least half of them.

MED1-4021/H SKIN ONCOLOGY

Course Coordinator: Dr. Rex A. Amonette

Location: 1455 Union

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 credit hours.

This clinical elective in skin oncology will instruct the student in the recognition, treatment, and prevention of malignancies of the skin. Instruction will be offered in conventional surgical excision, electrodesiccation and curettage, cryosurgery and Mohs micrographic surgery. Training in a clinical setting will be provided as it relates to anatomy, pathology, oncology, histochemical techniques, and local anesthesia.

MED1-4060/F PRECEPTORSHIP IN CLINICAL CARDIOLOGY

Course Coordinator: Dr. Karl Weber

Location: Regional One Health

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective is designed to introduce the student to the wide array of diagnostic and therapeutic techniques used in contemporary cardiology practice. The elective will emphasize increasing knowledge in the areas of cardiac history-taking and physical examination of the cardiovascular system by working with faculty to provide cardiology consultations. The student will also have time in the electrocardiographic, exercise testing, ambulatory ECG, echocardiographic and nuclear cardiology laboratories. An introduction to cardiac catheterization, interpretation of catheterization data and the management of cardiovascular intensive care unit patients will also be provided. Conferences will include 3 weekly cardiology conferences (Monday, Tuesday, and Friday), Medical Grand Rounds (Wednesday) and cardiac catheterization conference (Tuesday).

MED1-4065/F PRECEPTORSHIP IN CARDIAC PHYSICAL DIAGNOSIS AND NONINVASIVE TESTING

Course Coordinator: Dr. Otis Warr

Location: Baptist East

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The principle objective of this elective is to learn to read electrocardiograms and develop interpretative proficiency. In addition, the student will learn the indications for and application of other non-invasive cardiologic testing modalities including exercise testing, echocardiography, and nuclear cardiology. Conferences will include both general medicine and cardiology conferences each week.

MED1-4066/F PRECEPTORSHIP IN CLINICAL CARDIOLOGY

Course Coordinator: Dr. Ajay Dalal

Location: Methodist

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This preceptorship will afford the student the opportunity to participate in the evaluation and management of patients with cardiology problems. The student will have the opportunity to participate in the care of the acute patient in the Coronary Care Unit as well as observe special diagnostic procedures carried out through the diagnostic cardiology service. The student will be encouraged to participate in the weekly cardiology conferences as well as the other general medicine conferences held at the Methodist Hospital.

MED1-4070/F PRECEPTORSHIP IN CLINICAL ENDOCRINOLOGY AND DIABETES

Course Coordinators: Dr. S. Solomon and Staff

Location: VAMC

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective is designed to provide students with hands-on experience in dealing with patients with various endocrine disorders. The experiences include inpatient work-ups of endocrine cases, at the Regional One Health or at the VA Hospital. Inpatient care at the VA includes private patients of the endocrine faculty and consultations from other services for endocrine management. The Regional One Health inpatient care consists of consultations from various departments for management of patients with endocrine-metabolic problems. These include at both hospitals patients with brittle diabetes, pre- and post-operative management of diabetic patients with pancreas-kidney transplants, and diabetic patients who have had kidney or liver transplants. Other cases include work-up and management of patients with pituitary tumor, thyroid disorders, hypoglycemia, hyper- and hypocortisolism, hirsutism with insulin resistance, metabolic bone disease and disorders of calcium, and pregnant patients with diabetes or thyroid problems. Since this elective is designed as a comprehensive course in clinical endocrinology, the students also participate in out-patient clinics at the Regional One Health (once a week) and at the VAMC (once a week), where an average of 1-2 patients are evaluated by the students at each clinic. In addition, there are about 12 lectures on major endocrine topics/month (three times weekly), walking rounds, two conferences weekly, weekly Interhospital Rounds, Journal Club, and Lipid Conference conducted by the faculty and/or fellows. At the end of this elective, the students should be familiar with most of the common endocrine problems and particularly cognizant in the management of patients with diabetes. No weekend or evening call.

MED1-4073/F AMBULATORY ENDOCRINOLOGY

Course Coordinators: Dr. S. Solomon and staff

Location: VAMC

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective is designed to provide students exposure to ambulatory patients with a broad spectrum of endocrinopathies. The daily schedule will include VA conference on Tuesday, 8:15 to 9:15 a.m. Interhospital rounds on Thursday, 11 to 12, UT conferences on Thursday, 8:15 to 9:15 a.m., and tutorials 8 to 9 a.m. on Monday, Wednesday and Friday. From 9 a.m. to noon daily they will work with the course faculty in seeing their private patients or attend outpatient Regional One Health Plex and VA clinics. The experiences will include problems in growth and development, diabetes, and lipids mineral metabolism, and reproductive endocrinology, thyroid disorders, hypothalamic pituitary disorders, and diseases of adrenal glands.

MED1-4080/F PRECEPTORSHIP IN GASTROENTEROLOGY

Course Coordinator: Dr. Colin Howden

Location: UT Teaching Hospitals

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective is designed to provide the student with a broad exposure to the subspecialty of general clinical gastroenterology (including hepatology). About 40% of the student's time will be spent in the out-patient setting, where he/she will learn how to diagnose and manage a variety of common gastrointestinal complaints seen in the ambulatory patient. About 40% of the elective will be spent on an in-patient service at one of the UT Teaching Hospitals, where the educational emphasis will be on general consultative gastroenterology and in the management of acute GI disorders. The remaining time will be spent in the endoscopy suite, where the student will be exposed to the technical aspects of gastroenterology, and in didactic teaching sessions, which will include pathology, pathophysiology, and clinical conferences. During the month, students will work closely with GI fellows and attendings, being exposed to the expertise of many different UT gastroenterology and hepatology faculty members during the course of the elective. Our goal is to provide the student with an appreciation for the breadth of the subspecialty of gastroenterology and an understanding of how to rationally approach the patient with a gastrointestinal complaint.

MED1-4102/F PRECEPTORSHIP IIN HEMATOLOGY/ONCOLOGY

Course Coordinator: Dr. Michael Martin

Location: Methodist Inpatient

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The preceptorship at Methodist Hospital will aid the student in gaining expertise in the examination, diagnosis and management of patients with hematological and oncological disorders. The student at Methodist Hospital will participate in daily rounds with an attending physician, a medical resident and two medical interns. In addition, the student will have some patient care responsibilities depending on his or her level of clinical training and expertise. The student will participate directly in patient care, learning not only current hematological and oncological techniques of diagnosis and treatment but general principles of practice of internal medicine. In addition, the student will

review peripheral blood and bone marrow specimens. Each student should become familiar with the various procedures and practices consistent with quality patient care in the Division of Hematology/Oncology. Students should also attend general medicine conferences, hematology conferences, and medicine journal club.

MED1-4103/F CLINICAL HEMATOLOGY-ONCOLOGY

Course Coordinator: Dr. Lee Schwartzberg

Location: West Clinic Outpatient

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will acquire skill and efficiency in history taking and physical examination of a patient with hematologic or neoplastic disorder. Formulate a problem list. Apply knowledge and facts acquired in the biological sciences to a clinical problem in hematology or oncology. Learn the approach to staging and prognostication in cancer. The student will have some responsible for 10 (2 per day) patients. Students will participate in evaluation and managements of outpatients in an office setting with ample opportunity for closely supervised participation in direct patient care with an attending physician. There will be opportunity for reviewing blood smears, radiographic studies and discussion about candidacy of patients for participation in clinical research studies. Students will work closely with an attending physician who will be physically present in the clinic and will see all patients with the student. There are at least 5 weekly conferences varying from didactic sessions to disease-specific multi-disciplinary tumor boards as well as journal clubs.

MED1-4110/F PRECEPTORSHIP IN INFECTIOUS DISEASES

Course Coordinator: Dr. James Dale

Location: Regional One Health/VAMC

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 3.50 or 7 credit hours. Note: This elective can be half-time (MED1-4110/H)

During the preceptorship, students will gain practical experience in the diagnosis and management of infectious diseases under the supervision of attending physicians, postdoctoral fellows and medicine residents. They will participate in all rounds and seminars of the section and perform histories and physical examinations on selected patients on the consultation service. Students will be directed to pertinent literature regarding patients being cared for on the service.

MED1-4111/F PRECEPTORSHIP IN INFECTIOUS DISEASES

Course Coordinator: Dr. Michael Gelfand

Location: Methodist University

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours. Note: This elective can be half-time (MED1-4111/H)

This elective is designed to familiarize students with the evaluation and management of adult infectious diseases, and antimicrobials and their clinical use. Elements of clinical microbiology and epidemiology (especially hospital epidemiology) will be incorporated in the preceptorship, including review of stains, cultures, susceptibility, data, etc. The student will be responsible for initial evaluation of all patients. They will follow the patients daily, formulate plans of management and, under the supervision of a resident and attending, will write orders and notes on all infectious disease service patients. They will review stains, cultures, etc. daily on all patients.

MED1-4119/F FELLOWSHIP IN INFECTIOUS DISEASES

Course Coordinator: Dr. James Dale

Location: VAMC

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: 1 to 3 Blocks

By special arrangement individual students can work as research trainees under the supervision of a faculty member of the infectious diseases division. Generally, student projects will be closely related to the studies pursued concurrently in the preceptor's laboratory. A report of accomplishments may be required at the end of the elective.

MED1-4120/F PRECEPTORSHIP IN NEPHROLOGY

Course Coordinator: Dr. Barry Wall

Location: Regional One Health

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will be exposed to a wide variety of renal diseases of varying stages of severity. Individual patients will be assigned for each student to follow during the rotation. Experience in managing patients with fluid and electrolyte problems, acid-base problems and various aspects of hypertension also will be provided. The student will have the opportunity to observe patients receiving hemodialysis, peritoneal dialysis and who have had renal transplantation. Daily conferences and rounds will be conducted by the nephrology staff. Regular conferences include journal club, biopsy conference, physiology seminar and general nephrology conferences (case orientation). Outpatient experience will include weekly renal clinic.

MED1-4121/F PRECEPTORSHIP IN NEPHROLOGY

Course Coordinator: Dr. Barry Wall

Location: VAMC

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

See MED1-4120/F for course description

MED1-4122/F PRECEPTORSHIP IN NEPHROLOGY

Course Coordinator: Dr. Bobby Kelley

Location: Baptist East

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

See MED1-4120/F for course description

MED1-4123/F ELECTIVE IN FLUID, ELECTROLYTE, AND ACID-BASE MANAGEMENT

Course Coordinator: Dr. Barry Wall

Location: Nephrology Section VAMC

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Students will see patients with fluid, electrolyte, and/or acid-base problems with an attending nephrologist who will review and discuss the pathophysiology of the disorders encountered on a clinical basis. Participation in ongoing research studies in fluid and electrolyte problems is optional but suggested. Students will be expected to do a complete medical work-up (history, physical examination and clinical assessment) prior to presentation of each case to the attending nephrologist. These exercises will be complimented by didactic sessions in which the major fluid, electrolyte, and acid-base disturbances will be reviewed by faculty in the Nephrology Section. Each student will be assigned a specific topic for presentation in a seminar session at the end of the elective. Guidance in the preparation of seminar topics will be provided by a faculty member. Presentations will be informal, but must cover the assigned topics in a comprehensive manner. This elective will extend the student knowledge in the pathophysiology of fluid, electrolyte, and acid-base disorders and gain additional experience in the evaluation and management of complex clinical problems.

MED1-4129/F FELLOWSHIP IN NEPHROLOGY

Course Coordinator: TBA

Location: 920 Madison, Suite 200. 448-5764

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: 3 Blocks

Research rotation arranged with course director

MED1-4130/F PRECEPTORSHIP IN PULMONARY MEDICINE

Course Coordinator: Dr. Amado Freire

Location: Regional One Health

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective emphasizes applied respiratory physiology and concentrates on exposure to pulmonary function testing and principles of respiratory therapy and respiratory critical care. The student will have an opportunity to correlate the history and physical findings in chronic lung disease with the pathophysiology as revealed by pulmonary physiologic studies.

MED1-4132/F PRECEPTORSHIP IN PULMONARY MEDICINE

Course Coordinator: Dr. Muhammad K. Zaman

Location: VAMC

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective emphasizes applied respiratory physiology and concentrates on exposure to pulmonary function testing and principles of respiratory therapy and respiratory critical care. The student will have an opportunity to correlate the history and physical findings in chronic lung disease with the pathophysiology as revealed by pulmonary physiologic studies. The general Rheumatology preceptorship provides in-depth clinical experience in Rheumatology. This is supplemented by

attendance at all teaching rounds and conferences which include: seminars, consultation rounds, primer reviews and clinical and radiology conferences. An opportunity for in-depth study of a clinical and/or laboratory problem is also available under the direct supervision of one of the rheumatology faculty according to the interests of the student and the faculty preceptor (connective tissue, biochemistry, immunology and therapeutic trials). The student is responsible for the evaluation and care of inpatient consultations, and the care of out-patients with arthritis and connective tissue diseases.

MED1-4140/F PRECEPTORSHIP IN RHEUMATOLOGY

Course Coordinators: Dr. Debendra Pattanaik

Location: Regional One Health/VAMC/UTMG

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The general Rheumatology preceptorship provides in-depth clinical experience in Rheumatology. The student will attend all teaching rounds and conferences including primer reviews and radiology conferences. Interested students may student a clinical and/or laboratory problem under the direct supervision of one of the rheumatology faculty. The student is responsible for the evaluation and care of inpatient consultations, and the care of outpatients with arthritis and connective tissue diseases. The student will learn how to approach examinations, diagnosis and treatment of patients with rheumatic diseases. Students will be trained in joint aspiration and injection by the staff or rheumatology fellow. The focus is on ambulatory care of common rheumatic problems.

MED1-4142/F RHEUMATOLOGY

Course Coordinator: Dr. Charles R. Arkin

Location: Rheumatology & Osteoporosis Center of Memphis, PC

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective will teach the student how to approach examinations, diagnosis and treatment of patients with rheumatic diseases and to teach evaluation of X-rays on rheumatic patients. The student will be responsible for seeing patients in the office, performing a limited number of histories and physicals. The student will write appropriate progress notes and formulate an assessment based upon information gathered. Students will be trained in and/or observe joint aspirations and injections by the staff.

MED1-4150/F PRECEPTORSHIP IN REHABILITATION MEDICINE

Course Coordinator: Dr. Robert W. Greene

Location: Varies

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours. Note: This elective can be a half-time elective (MED1-4150/H)

This elective is designed to provide the student with a knowledge of the evaluation and treatment services provided by the Division of Rehabilitation Medicine and their role in total management of both inpatients and outpatients. Students will work directly under the supervision of physicians of the Division of Rehabilitation Medicine and will learn to perform functional evaluations and design rehabilitation treatment programs for patients referred to the Division. Students will also learn the indications and uses for Physical and Occupational Therapy in a large variety of conditions. The student will spend time at the Regional One Health, Campbell Clinic, VA Hospital, HealthSouth, and

Methodist Hospital. Each of these rehabilitation programs has a somewhat different emphasis due to the nature of the patient referral load. The student will also be provided an opportunity to participate in the ongoing research programs of the Division of Rehabilitation Medicine. This elective will be of great value to students who are considering a career in those specialties which utilize Rehabilitation Medicine services extensively. These include the specialties of orthopaedic surgery, neurosurgery, neurology, rheumatology, and family practice.

MED9-4000/F SERIES - VISITING ELECTIVE IN A MEDICINE SUBSPECIALITY

Course Coordinator: Department Chair

These are face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The following course numbers are to be used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC.

EME9-4010/F Emergency-MED	
MED9-4010/F General Medicine	MED9-4080/F Gastroenterology
MED9-4011/F Internal Medicine	MED9-4090/F Geriatrics
MED9-4020/F Dermatology	MED9-4100/F Hematology/Oncology
MED9-4028/F Epidemiology	MED9-4110/F Infectious Diseases
MED9-4030/F Emergency Medicine	MED9-4120/F Nephrology
MED9-4035/F Critical Care Medicine	MED9-4130/F Pulmonary
MED9-4040/F Ambulatory Medicine	MED9-4140/F Rheumatology
MED9-4050/F Allergy-Immunology	MED9-4150/F Rehabilitation Medicine
MED9-4060/F Cardiology	
MED9-4070/F Endocrinology	

DEPARTMENT OF NEUROLOGY

NEU1-3001/F NEUROLOGY REQUIRED CLERKSHIP-MEMPHIS/CHATTANOOGA/KNOXVILLE

Course Coordinator: Dr. William Pulsinelli

Size: 14

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

"This four-week (one block) required clerkship is only offered in Memphis and in selected months in Chattanooga and Knoxville. Students are assigned for Adult or Pediatric Neurology to one of four primary locations that have Neurology Residents in Memphis: The Regional Medical Center, the Veterans Administration Medical Center, the Methodist University Hospital, or Le Bonheur Children's Hospital. In Chattanooga the students are assigned to Erlanger Medical Center and in Knoxville the students are assigned to UT Medical Center.

Students who are particularly interested in primary care or pediatrics/pediatric subspecialties should consider requesting the rotation at LeBonheur. Four students only, who are particularly interested in primary care or pediatrics/pediatric subspecialties, per block, may elect to be assigned to the Pediatric Neurology-based rotation at the LeBonheur Children's Hospital. This must be requested at least one month in advance

Since the LeBonheur site is limited to four students, who are anticipating going into pediatrics or pediatric subspecialties, we ask that students, who will be working with adult patients, please choose one of the other three sites. All students will get some training in pediatric neurology when they do their pediatric rotation.

Irrespective of their assigned location, all students meet several times per week in the Neurology Department Library in order to attend formal teaching rounds in a case-discussion or team-based learning format. Attendance at these lectures, Grand Rounds and other scheduled teaching conferences is mandatory. Students are exposed to patients with neurological disorders in outpatient/ambulatory, inpatient, and emergency room settings. Students work closely with the Neurology staff physician (attending) and the resident physicians. Students also participate in all of the Neurology Department's clinical conferences.

Scheduled absences from this clerkship should be avoided whenever possible. For students who must be absent, please familiarize yourself with the FAQs and the Student Handbook, especially the pages regarding absences and bonus exam. These can be found on Bb under the Neurology Clerkship.

The objectives of this clerkship are to:

1. Develop skills in neurological history taking and in the performance and interpretation of the neurological examination.
2. Apply neuroanatomy principles to localize the lesion within the nervous system
3. Recognize common neurological emergencies and initiate their treatment
4. Understand Pathophysiology and management of common neurological disorders.

For further information regarding this clerkship policies and procedures, please go to the Bb site for the Neurology Clerkship, <http://courses.uthsc.edu/>

NEU1-3010/F JI Any – Senior Clerkship in Neurology

Course Coordinator: Dr. Mervat Wahba

Size: 3

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will participate as an "Acting Intern" on the Neurology service. All students must first satisfactorily complete their core rotations in internal medicine and in neurology. The clerkship lasts 4 weeks and may be performed at the Regional Medical Center, the Veterans Administration Medical Center, Methodist University Hospital or the Methodist-LeBonheur Children's Hospital. Acting student interns will be given the same scope of responsibilities as a PGY-1 resident.

The objectives of the rotation are:

1. To improve skills in obtaining an accurate neurological history
2. To improve skills in the neurological examination
3. To improve anatomical localization of the lesion
4. To improve the pathophysiological analysis of the lesion
5. To gain practical experience in the diagnosis and management of common neurological disorders
6. To become aware of the core competencies in neurology and how they will be used in the student evaluation

Responsibilities will include inpatients and outpatients and limited neurology night call (every fourth night until 10 PM) and weekend call (rounding on either Saturday or Sunday morning but not both). The student will follow between 3 and 5 inpatients at any given time and will be responsible for the H&P, daily orders, daily notes, on-service notes, transfer and off-service notes, and discharge summaries and write prescriptions for your patients upon discharge. The student is expected to read about his or her patients (neurology textbooks and journal articles), discuss the case daily with the chief resident and present to the attending. The student will also see 2 or 3 outpatients in a weekly clinic, present each case to the attending and write the note that the attending reviews and co-signs. Attendance at neurology conferences is required except when dealing with a neurological emergency. Vacation cannot be taken during the rotation. The student will receive informal feedback from the attending after two weeks and formal evaluation at the completion of the clerkship with an emphasis on the neurology core competencies. A copy of the core competencies evaluation form will be provided at orientation along with other materials.

NEU1-4012/F NEUROMUSCULAR DISEASES

Course Coordinator: Dr. Tulio Bertorini

Location: UT/Meth/MDA Clinic

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This will be a block elective that involves a preceptorship and tutoring in the study of diseases of the motor neuron, peripheral nerve, and muscle. Students will work closely with Dr. Bertorini in neuromuscular clinics, workup and therapy of neurology inpatients and consultations, performance of electromyography and nerve conduction studies, and neuropathological-histochemical evaluation of neuromuscular disorders.

NEU1-4013/F CLINICAL NEUROLOGY - CONSULTATION SERVICE

Course Coordinator: Dr. Michael Jacewicz

Location: VA Medical Center

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course will supplement core training in neurology with exposure to acute neurological conditions on the consultation service. The student will have responsibility for 4-6 patients per week. Responsibility will be graduated and depend on the urgency and complexity of the consultation. Whenever feasible, students will see consults first. They will present the patients to their resident and/or attending on the same day. Students will interact with neuroradiologists, neurosurgeons, and other subspecialists as needed to implement their plan (under the close supervision of the consult resident and attending). They will write the initial consult note and follow-up notes as clinically indicated. The resident or attending will read and cosign all notes. The attending will write a separate consultation note as well. The resident will see all student consults promptly (on the same day as the student). The attending will see the patient within 24 hours of the consultation request. Students will discuss their patients with the resident and attending on a daily basis except weekends. The resident or attending will read and cosign all student notes. The student will supplement his acute neurology experience by attending Neurology clinic once or twice per week. He or she will see 1-3 patients and present these to the resident and/or the attending. All patients will receive separate resident and/or attending notes for these patients. The student will attend resident teaching rounds (held daily during the week), Neurology Grand Rounds, and various other departmental and related seminars (optional). Night call is optional. If the student chooses to take night call, night call will end at midnight. Optional weekend call would start at 8AM and last no later than midnight.

NEU9-4010/F VISITING ELECTIVE IN NEUROLOGY

Course Coordinator: Department Chair

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC.

DEPARTMENT OF NEUROSURGERY

NSG1-4010/F NEUROSURGERY

Course Coordinator: Dr. L. Madison Michael II

Location: METH/Regional One Health/LeBonheur

Size: Unlimited number of students per block

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective will involve a four-week exposure to the neurosurgical patient and all aspects of clinical care and research, including pre-operative evaluation, indications for surgical and non-surgical management, discussion of neurosurgery techniques, management of neurosurgical and neurological emergencies, and management of post-operative problems. The course will be combined with Neuropathology and Neuroradiology to ensure a broad basic understanding of the neurosurgical approach to disease. The rotation will refine the student's ability to perform pertinent history and neurological examinations, interpret neurodiagnostic studies, produce a differential diagnosis, and formulate a treatment plan. Opportunities for student participation in operations are abundant.

The student will be expected to attend regular educational conferences and seminars held during this time. Faculty members are available to mentor students in basic short-term neurosurgical research projects within the Department.

NSG9-4010/F VISITING ELECTIVE IN NEUROSURGERY

Course Coordinator: Department Chair

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC.

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

OBG1-3001/F OBSTETRICS AND GYNECOLOGY CLERKSHIP

Clerkship Director: Thomas Elmore, M.D.

Location: UTHSC Memphis

Size: 24

This is a face to face clinical rotation offered in the fall and spring and receiving 14 credit hours.

This Clerkship is 4 weeks of Obstetrics, 2 weeks of Gynecology and 2 weeks of Gynecologic Oncology. It includes lectures, problem-based cases, conferences, and grand rounds. Obstetrics consists of labor and delivery at the Rout Center/Birthplace of the Regional One Health Medical Center, high-risk obstetrics, routine obstetrics, and clinic at the Medplex, Center for High Risk Pregnancies, and the Health Loop. Call is 12 hours: one week of day call, one week of night call, one Saturday day or night call and one Sunday day or night call. Gynecology at Baptist Memorial Hospital for Women is one week of surgery and one week of clinic at the Medplex or the Memphis Health Center. Gynecology (Gyn-B) is one week of surgery and rounds at Methodist Germantown Hospital with clinic at the Medplex and one week of surgery and rounds at the Regional One Health Medical Center with clinic at the Medplex, and night call. Gynecologic Oncology is at Baptist Memorial Hospital (East), Baptist Memorial Hospital for Women, or Methodist University Hospital and includes surgery, rounds, and clinic at the West Clinic/West Cancer Center. Grading: 60% clinical, 30% standardized test, 5% quizzes, and 5% completion of the clinical skills book.

OBG2-3001/F OBSTETRICS AND GYNECOLOGY CLERKSHIP

Clerkship Director: Nirmala Upadhyaya, M.D.

Location: UT Knoxville

Size: 6

Grading: 70% clinical, 30% standardized test

This is a face to face clinical rotation offered in the fall and spring and receiving 14 credit hours.

OBG3-3001/F OBSTETRICS AND GYNECOLOGY CLERKSHIP

Clerkship Director: Jeanie Dassow, M.D.

Location: UT Chattanooga

Size: 3

Grading: 70% clinical, 30% standardized test

This is a face to face clinical rotation offered in the fall and spring and receiving 14 credit hours.

OBG1-3010/F JI ANY - SENIOR CLERKSHIP IN OBSTETRICS

Course Contact: Thomas Elmore, M.D.

Location: UTHSC

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Students must contact Dr. Elmore at telmore@uthsc.edu to schedule this elective. This 4-week elective is designed for students interested in an in-depth experience in high-risk obstetrics. Students will spend time in the high-risk specialty clinics, antepartum testing and

obstetrical ultrasound, as well as attend rounds and MFM conferences. The student will be supervised in spontaneous vaginal deliveries, forceps deliveries, and obstetrical surgical procedures. This elective is not offered in Blocks 5 or 6.

OBG1-3020/F JI ANY - SENIOR CLERKSHIP IN GYNECOLOGY

Course Contact: Thomas Elmore, M.D.

Location: UTHSC

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Students must contact Dr. Elmore at telmore@uthsc.edu to schedule this elective. This 4-week elective will allow the student to become more familiar with Gyn outpatient care involving issues such as infections, colposcopy, and contraception. The student will also be actively involved in surgery under the supervision of faculty and Residents on the Gyn service. The student will be expected to attend all assigned rounds, clinics, and conferences. This elective is not offered in Blocks 5 or 6.

OBG1-4010/F CLINICAL OB/GYN FOR THE GENERALIST

Course Contact: Thomas Elmore, M.D.

Location: UTHSC

Size: 1

Note: Only available to UTHSC students specializing in Ob/Gyn

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Students must contact Dr. Elmore at telmore@uthsc.edu to schedule this elective. This elective provides students with an in-depth view of the obstetrical and gynecological subspecialties, as well as the opportunity to work with a private practitioner. This elective can be customized to the student's needs, but in general consists of 4 weeks divided into different clinical settings. These may include time spent with private general Ob/Gyn practitioners, reproductive endocrinologists, gynecological oncologists, or a pediatric gynecologist. This elective is not available in Blocks 5 or 6.

OBG1-4020/F CLINICAL ELECTIVE IN GYNECOLOGIC ONCOLOGY

Course Contact: Thomas Elmore, M.D.

Location: UTHSC

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Students must contact Dr. Elmore at telmore@uthsc.edu to schedule this elective. This 4-week elective will allow the student to become more familiar with Gynecologic Oncology topics, surgical and medical treatments, as well as examine three or four gynecologic cancers with a review of the literature. The student will be responsible for approximately 10 patients per week. There will be supervision by Dr. Santoso and/or Residents. The student will also attend weekly Gynecologic Oncology management conferences. This elective is not offered in Blocks 5 or 6.

OBG1-4040/F CLINICAL ELECTIVE IN REPRODUCTIVE ENDOCRINOLOGY & INFERTILITY AND GENETICS

Course Contact: Thomas Elmore, M.D.

Location: UTHSC

Size: 1

Note: Only available to UTHSC students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Students must contact Dr. Elmore at telmore@uthsc.edu to schedule this elective.

Students must also receive approval from Dr. Martin dmarti27@uthsc.edu or Dr. Detti

ldetti@uthsc.edu. This 4-week elective consists of reproductive endocrinology and genetics clinics, REI ultrasound procedures, REI surgery, and fertility preservation techniques. The student will also observe laboratory procedures related to semen analysis and oocyte manipulation, and cryopreservation techniques.

This elective is not offered in Blocks 3, 10, 11 or 12.

OBG9-4010/F VISITING ELECTIVE IN OBSTETRICS/GYNECOLOGY

Course Contact: Thomas Elmore, M.D.

Note: Only available to UTHSC students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is for UTHSC students scheduling a visiting elective at another medical school.

DEPARTMENT OF OPHTHALMOLOGY

OPH1-4010/F GENERAL OPHTHALMOLOGY

Course Coordinator: Dr. William R. Morris

Location: VARIES

Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Not available in Blocks 1, 6, or 12

The student will be assigned to general and subspecialty ophthalmology rotations at The Hamilton Eye Institute, the UT/Regional One Health and UT Medical Group offices. The student is expected to become skilled in ocular examination, to assist in the evaluation of outpatients, to participate in rounds, to observe surgery, and to attend all resident conferences and lectures. Interactive media supplied to the student will augment the didactic and clinic attendance. During the elective, the student will gain experience in the medical and surgical management of diseases of the eye and its adnexa.

OPH9-4010/F VISITING ELECTIVE IN OPHTHALMOLOGY

Course Coordinator: Department Chair

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC.

DEPARTMENT OF ORTHOPAEDICS

SUR1-3002/F REQUIRED SURGERY SPECIALTIES

Course Coordinator: Department Chair

Location: Varies

Size: 16

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: This clerkship exposes the student to the Surgery Specialties of Orthopaedics, Ophthalmology, Otolaryngology and Urology.

NOT AVAILABLE IN BLOCKS 1, 6, AND 12

ORS1-4010/F GENERAL ORTHOPAEDICS

Course Coordinator: Department Chair

Location: Varies

Size: 10

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective will give the student a general overview of the specialty of Orthopaedic Surgery. It will be an intensive exposure to Campbell Clinic, the VA Hospital, Regional One Health, and/or the Baptist Hospital. The elective includes various conferences and meetings within orthopaedics including adult and children's fractures and other injuries, reconstructive surgery and hand surgery. The elective is designed for students who are considering careers in Orthopaedic Surgery, other surgery specialties, Family Medicine, or Pediatrics.

ORS1-4020/F CHILDREN'S ORTHOPAEDICS

Course Coordinator: Department Chair

Location: LeBonheur

Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective is designed for those students who are interested in Pediatrics, Family Medicine, and Orthopaedic Surgery. It will introduce the student to problems of children's orthopaedics including such areas as trauma, congenital anomalies, cerebral palsy and other neuromuscular disorders, scoliosis, congenital and acquired amputations and common developmental deformities of the lower extremities in children. The student will be assigned to LeBonheur Hospital on the Tennessee or Mississippi Children's Service and will participate in the clinics, surgery and conferences of the service.

ORS1-4030/F ORTHOPAEDIC PRECEPTORSHIP/ORTHOPAEDIC ANATOMY

Course Coordinator: Department Chair

Location: Varies

Size: 6

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Prerequisite: Check with Becky Adams before scheduling (901) 448-5880

This elective is designed to provide the student a relationship with an orthopaedic resident and to give the student the opportunity to study orthopaedic gross anatomy. The student will be expected to spend a portion of their week in the anatomy department studying extremity anatomy and carrying out anatomical dissection under supervision of the resident.

ORS9-4010/F VISITING ELECTIVE IN ORTHOPAEDIC SURGERY

Course Coordinator: Department Chair

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is to be used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC.

DEPARTMENT OF OTOLARYNGOLOGY AND MAXILLOFACIAL SURGERY

OTO1-3010/F PEDIATRIC AND ADULT OTOLARYNGOLOGY

Course Coordinators: Drs. Jerome w. Thompson, Jennifer McLevy and Sandeep Samant

Location: LeBonheur and Methodist University Hospital

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This clerkship objective is to expose the 4th year student to intern level responsibility. Requires exposure to clinics, wards and emergency room care of otolaryngology head and neck patients. The student will have some responsibility for 20 patients per week. The student will perform preliminary evaluations of clinic patients. Perform routine intern level duties on ward patients and emergency room patients. To assist in surgery at an intern level to have an entry level of knowledge of basic medical and ENT diseases and care. The level of supervision of student by faculty residents will be elbow to elbow with senior resident and attending. The student will need to attend 3 Grand Rounds per week, didactic and M&M, patient care and tumor planning conferences. Call schedule duty will be easy 4th night.

OTO1-4010/F OTOLARYNGOLOGY-HEAD AND NECK SURGERY

Course Coordinator: Dr. Jerry Thompson

Location: VAH/Regional One Health/LBCH/Meth/Baptist/St. Jude

Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course is designed to acquaint the student with the clinical disciplines of otolaryngology - head and neck surgery. The student will gain experience with patients suffering from diseases of the ear, nose, sinuses, pharynx and larynx including the diagnosis and management of cancer in the head and neck area. Inpatient and outpatient diagnostic and management problems and routine care will be used to sharpen their skills. The history and physical examination will be emphasized. The course will be conducted at Regional One Health, Methodist Hospital, Baptist Memorial Hospital, and VA Medical Center. Student choice of location is offered and assignment at the location depends on demand.

OTO1-4011/H HEAD AND NECK MEDICINE

Course Coordinator: Dr. Jerry Thompson

Location: VAH/Regional One Health/ LBCH/Meth/Baptist/St. Jude

Size: 6

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Half-time only

The elective is designed to review the essentials of a complete head and neck examination, to familiarize students with common disease processes in this area and to teach the medical management of common head and neck disorders as well as emergencies. Students will complete a reading list and study a visual aid set of slides from which test material will come. Typical procedures that students will perform will include Otoscopy, Weber & Rhine' tests, anterior rhinoscopy, indirect nasopharyngoscopy, local biopsies, simple mucosal and skin suturing, and cerumen disimpaction with operating microscope. They will also be exposed to audiology, speech

pathology, electronystagmography, and facial nerve testing. Hours will be 7:30 am - 5:00 pm weekdays only for two weeks.

OTO9-4010/F VISITING ELECTIVE IN OTOLARYNGOLOGY

Course Coordinator: Dr. Jerry Thompson

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC.

DEPARTMENT OF PATHOLOGY

PAT1-4010/F PATHOLOGY

Course Coordinator: Dr. Charles Handorf

Location: Regional One Health

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Please contact Dr. Handorf (448-7020) for approval to schedule elective.

The student(s) will be involved with both the gross and microscopic aspects of surgical and/or autopsy pathology. Correlation of gross, histopathologic, and cytopathologic (when applicable) findings with the clinical presentation of the patient, as well as the pathophysiologic mechanisms involved, will be emphasized. The student(s), along with the residents and staff members, will participate in conferences, and suggested readings will be provided during the rotation.

PAT1-4014/F Pathology-Advanced Elective

Course Coordinator: Dr. Charles Handorf

Location: Various

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course will provide additional hospital based pathology experience for students who have taken the basic elective. Primarily this elective is intended for students interested in a career in pathology. A senior resident mentor will be assigned to each student. There will be five to seven weekly conferences. The student will attend all required resident conference. Assist in autopsies, surgical dissections, fine needle aspirations, bone marrow collections and plasma pheresis. No call or weekend duty.

PAT9-4010/F VISITING ELECTIVE IN PATHOLOGY

Course Coordinator: Department Chair

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC.

DEPARTMENT OF PEDIATRICS

PED1-3001 /F PEDIATRICS CLERKSHIP

Clerkship Director Dr. Valerie Jameson

Location: Memphis

This is a face to face clinical rotation offered in the fall and spring and receiving 14 credit hours.

Core Clerkship in Pediatrics (14 credit hours). This eight-week clerkship is required of all medical students. Four weeks of this experience are in an ambulatory setting that includes: general outpatient care, subspecialty clinic experience, St. Jude clinics, an NICU experience and primary care in a private office setting. The other four weeks are spent on inpatient service, providing direct "hands-on" patient management. In the eight-week case conference series students, discuss common pediatric issues with clinicians from all pediatric subspecialties. Regular rounds with faculty and house staff provide opportunities for interaction with all members of the health care team as well as active participation in managing the pediatric patient. Students also engage in computer simulated patient experiences through the CLIPP cases online. This clerkship is also offered in Chattanooga (PED3-3001/F).

PED1-3010/F JI ANY - SENIOR CLERKSHIP IN PEDIATRICS

Course Coordinator: Dr. Valerie Jameson

Location: LBCH

Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

“ATTENTION JUNIOR INTERNS: We are extremely excited that you decided to rotate with the pediatrics department! To ensure a smooth transition into your JI clerkship, please give the Pediatric Chief Residents a call at (901) 287-5923 or (901) 287-5920 prior to your first day! This is how you will find out about call schedules, etc. We look forward to working with you!”

This clerkship offers increased responsibility in inpatient general pediatrics utilizing the facilities of the Le Bonheur Children's Hospital. The student will be assigned ward service and will be responsible, under the direct supervision of the faculty, for admitting patients, writing orders, and performing the procedures necessary to carry out a plan for the diagnostic evaluation and treatment of assigned patients. The student will be under the immediate supervision of the senior resident of the assigned service and directly responsible to one or more attending faculty. The student will attend daily ward (work) rounds with the residents, daily teaching rounds with the medical staff, special teaching rounds in which the patients assigned to the student may be presented, and all scheduled weekly conferences, including infectious disease, radiology, pathology, grand rounds and subspecialty conferences. Great emphasis is placed on the junior intern displaying all the desirable attributes of sound professionalism, including effective use of evidence based medicine, compassion, efficiency, love of learning and ease of integration into team care.

PED1-4010/F MEDICAL GENETICS

Course Coordinator: Dr. Jewell C. Ward

Location: 523 CDD

Size: 2 (maximum)

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: Availability is limited in Blocks 10/11 due to National Meeting (end Block 10/early Block 11); check with Course Director at (901) 448-6595.

Note: This elective can be half-time (PED1-4010/H)

This elective offers a clinical rotation with emphasis on in depth evaluations of patients and their families referred for genetic evaluation and consultation. The student will be taught to obtain three generation pedigree; to evaluate family and patient history, and to perform a detailed genetic physical examination as goals for this rotation. Current on-line genetic resources are emphasized. It is a block rotation which includes exposure to and the evaluation of a variety of patients with genetic disorders. Weekly patient conferences are held; laboratory tutorial experiences are available if requested in the clinical and molecular cytogenetics laboratory & the inborn errors of metabolism laboratory. Principles and skills learned during the evaluation of families with genetic disorders and patients with congenital anomalies and metabolic disorders seen during this rotation are applicable to all aspects of medicine. This is a fun rotation.

PED1-4011/F NEURODEVELOPMENTAL DISABILITIES

Course Coordinator: Dr. Fred Palmer

Location: CDD

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Please get approval from Toni Whitaker, MD at least 2 months prior before you sign up for this course.

This elective in neurodevelopmental disabilities provides an intensive one-month interdisciplinary clinical exposure to the detection, diagnosis, evaluation, support and community integration of children with neurodevelopmental disabilities. These disabilities include autism spectrum disorders, intellectual disability (mental retardation), developmental language disorders, school learning and behavioral problems, cerebral palsy, and other disabilities. Under faculty supervision, students will evaluate new patients, serve as members of the interdisciplinary team and participate in team conferences. They will be actively involved in discussing with families the diagnoses, recommendations and management issues. The student will present a short seminar to pediatric faculty and residents. Opportunities to adapt the rotation to meet the student's particular goals are available and should be discussed with faculty. Specific focused projects will be considered.

PED1-4012/F PEDIATRIC NEUROLOGY

Course Coordinator: Dr. Namrata Shah

Location: LBCH

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: This elective can be halftime (PED1-4012/H)

This elective is designed to provide the student with a broad neurological experience in an inpatient and an outpatient rotation through the Le Bonheur Children's Hospital. The student will evaluate patients on the neurology service as well as those on other services requesting a neurology consultation. Clinical history, neurological examination, neurodiagnostic studies (EEG, Ct Scan MRI, EMG, Nerve Conduction) and management will be stressed. Outpatients will be seen in staff offices and the Muscular Dystrophy Association Clinic. The student will be required to attend Grand Rounds in Pediatrics, Neurology and Pediatric Neuroscience Conference round each week.

PED1-4019/F RESEARCH IN PEDIATRICS

Course Coordinator: Dr. Dennis Black

Location: Variable

Size: Variable

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

A specially arranged elective in applied research with a preceptor in the Department. The course director will assist students in identifying a faculty research mentor at least 3 months in advance of starting the elective. The student will meet with the mentor and arrange the content and exact dated of the elective at this time.

PED1-4030/F PEDIATRIC EMERGENCY MEDICINE

Course Coordinator: Dr. Amy Hertz

Location: LBCH

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Students need approval of course director to schedule this rotation. The student can email Dr. Hertz at ALHertz@comcast.net or call the ED administration office (287-5986) before 3:00 PM and the secretary will get the message to her.

The purpose of this elective is to provide the student with an experience in acute care pediatrics. The student should improve his/her assessment skills in caring for the acutely ill or injured child. An approach to common pediatric emergencies will be taught. Students will gain experience in procedures such as pediatric phlebotomy and IV, spinal taps, and splinting and laceration repair. The student will work as a sub intern in the Department under direct supervision of the Emergency Department Attending Physician. He/she will perform the initial evaluation of patients, necessary tests, and provide appropriate therapy after consultation with the Emergency Department faculty. The student will attend the Department's teaching conferences.

PED1-4035 /F NEWBORN MEDICINE

Course Coordinator: Dr. Ajay Talati

Location: Crump Women's Hosp. Rm. 201

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The care of critically ill infants is under direct ongoing supervision of faculty and/or fellows. Evaluation, diagnosis, and treatment of neonates are based upon pathophysiologic principles. The relationship of infants' disorders to intrauterine events is stressed. The student participates in rounds and supervised patient care on the same basis as the pediatric intern. This includes delivery room management of distressed infants, admission of inborn and transported neonates, management of respiratory support, fluids and electrolytes and all other considerations that comprise multisystem support of sick infants, as well as procedures inherent to such care. Ongoing communication with perinatal social workers, whose activities are concerned with high-risk infants and their mothers, will expose the student to the highly sensitive psychosocial ramifications experienced by the families of babies in intensive care units.

PED1-4036 /F PEDIATRIC ICU

Course Coordinator: Dr. Nadeem Shafi

Location: LBCH

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Available: Via approval of Coordinator (287-3132)

Note: No longer offered as a JI.

This elective introduces the 4th-year medical student to the care of critically ill children in the sophisticated, technologically-rich environment of the pediatric intensive care unit (PICU). The student will encounter life-threatening pediatric conditions such as sepsis, trauma, status asthmaticus, and DKA; post-operative care for a variety of cases such as spinal fusions and brain tumor resections; and a range of other conditions which require children to have intensive care monitoring. The student may be exposed to extracorporeal support modalities such as ECMO and continuous renal replacement.

While assuming care of patients under the supervision of Pediatrics residents as well as Pediatric Critical Care fellows and faculty, the student will participate in rounds and implement care plans just like a resident, fully integrating with the multidisciplinary team. S/he will learn to recognize concepts of physiology and pathophysiology in clinical presentations, and apply them in monitoring and management strategies. Fundamentals of critical care such as airway and hemodynamic stabilization will be reviewed. The student will gain familiarity with invasive procedures common in the PICU. Finally, this rotation will provide experience with families who are under the duress of having a critically ill child.

PED1-4040/F COMMUNITY PEDIATRICS

Course Coordinator: Dr. Gail Beeman

Location: LBCH

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: Available in Blocks 1, 2, 3, 4, 8, 9, 10 and 11
This elective can be half-time (PED1-4040/H)

The community rotation is focused on familiarizing the student with community organizations and efforts that contribute to the health and wellbeing of our children. The organizations include Le Bonheur community outreach - West Tennessee Mobile Van (visits schools with children who need routine care), Nurse Family Partnership (home visits for needy families), Tipton County Schools (school nursing), LEAD (physical, speech and occupational therapy for disabled children from all socio-economic strata), LCAP (child abuse assessment), and SafeKids. Other organizations include – The Urban Child Institute (TUCI) and the Shelby County Health Department. Understanding advocacy for children is also part of the goal of the rotation and various activities are available including trips to Nashville when the state legislature is in session. The student will participate in several activities each week. A written journal of these activities is required as well as periodic group discussions. Reading material is also provided for each activity to augment the experience. Because of the scheduling of activities with schools and other agencies that decrease or change activities in the summer/holiday months, the rotation is only offered during eight months – August through November and January through April. The student who signs up for this rotation must have a highway safe vehicle and gas money for travelling to the various West Tennessee outreach locations. Trips to Nashville when scheduled are provided.

PED1-4050/F PEDIATRIC ALLERGY - CLINICAL IMMUNOLOGY

Course Coordinator: Dr. Betty Lew

Location: LBCH

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: This elective can be half-time (PED1-4050/H)

This clinical allergy/immunology elective is designed to give the student an understanding of the basic principles of diagnosis and management of children with allergic and immunologic diseases. The emphasis of this elective will be on the evaluation and treatment of the following atopic diseases: asthma, allergic rhinitis, atopic dermatitis, food allergy, urticaria, and insect sensitivity. Another part of the elective is the evaluation and treatment of children with recurrent infections. Appropriate reading assignments will be given during the elective. In addition, the student will participate in the weekly allergy immunology conference, fellow's asthma clinic, and allergy/immunology journal club.

PED1-4060/F PEDIATRIC CARDIOLOGY

Course Coordinator: Dr. Ryan Jones

Location: LBCH

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: This elective can be halftime (PED1-4060/H)

The student will learn basic principles of pediatric cardiology, which will increase understanding of the diagnosis, management and treatment of the patient with heart disease. The student also will learn the basics of graphics interpretation (EKG; m-mode, 2d and Doppler echocardiography; exercise testing) hemodynamic data and x-ray, will be able to observe cardiac catheterizations and cardiac surgery, and will be intimately involved in the care of both inpatient and outpatient medical and surgical patients. This elective includes several weekly clinical/didactic sessions. Emphasis will be placed on the outpatient evaluation of children referred for heart murmurs, if so desired by the student. Other areas of emphasis are available upon request to Dr. Jones.

PED1-4070/F PEDIATRIC ENDOCRINOLOGY-METABOLISM

Course Coordinator: Dr. Sunil Sinha

Location: LBCH

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The elective in pediatric endocrinology is designed to teach students to evaluate and manage the most common problems of pediatric endocrinology and metabolism and to acquaint them with some of the less common problems. It is also meant to serve as an introduction to the discipline for those who intend to seek further training in pediatrics or endocrinology. Students will evaluate and treat both hospitalized and ambulatory patients under the direct supervision of an attending physician. Emphasis is placed on the efficient use of laboratory studies in diagnosis. A faculty member will meet with the students on a regularly scheduled basis to discuss their patients. The students will participate in the academic exercises of the Division. If students have other, specific educational goals, the elective may be individualized by prior arrangement to fulfill those.

PED1-4079/F PEDIATRIC ENDOCRINOLOGY - DIABETES RESEARCH

Course Coordinator: Dr. Sunil Sinha

Location: LBCH

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will participate in ongoing clinical and basic research in the area of general endocrinology or diabetes.

PED1-4080/F PEDIATRIC GASTROENTEROLOGY

Course Coordinator: Dr. Mark Corkins

Location: LBCH

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This clinical elective offers an experience in both outpatient and inpatient pediatric gastroenterology and nutrition. Owing to the large referral population of the division, participants can be expected to encounter patients with a wide variety of gastrointestinal and hepatic disorders. Normal physiology, pathologic physiology, techniques of evaluation, histologic pathology, and therapy will be discussed. Participants will be able to observe different diagnostic procedures such as endoscopy, colonoscopy, liver biopsy, etc. Participants will also be expected to be actively involved in the evaluation and management of hospitalized patients.

PED1-4102/F ST. JUDE ELECTIVES

Course Coordinator: Dr. Joan Chesney

Location: St. Jude Children's Research Hospital

Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: This elective can be half-time (PED1-4102/H)

Students must contact Jeannie Diaz jeannie.diaz@stjude.org/901-595-6385 or Dr. Chesney joan.chesney@stjude.org to take this course or for further details of each available elective.

Electives for fourth year students are available at St. Jude in the fields of Hematology, Oncology, Infectious Diseases, Surgery, Anesthesiology, Pathology, Neurology, Critical Care Medicine and, in selected cases, Radiation Oncology. In most cases, the emphasis is on inpatient care with staff, fellow and resident supervision. Some rotations may involve time in clinics, operating or procedure rooms.

In addition to patient care, the student will participate in a variety of weekly conferences. Research electives are also available.

PED1-4110/F PEDIATRIC INFECTIOUS DISEASES

Course Coordinator: Dr. Sandra Arnold

Location: LBCH

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective offers the student hands-on experience in the diagnosis and treatment of children with both common and uncommon pediatric infectious diseases. In addition, the student learns the principles of effective and judicious use of antimicrobial agents and has the opportunity to hone his/her diagnostic skills by evaluating challenging cases. The student will generally have first

contact with new patients on the inpatient consultation service and will also evaluate selected outpatients. The Le Bonheur consultation service sees approximately 40-50 new inpatients per month. In addition, approximately 3-6 patients per week are evaluated in the Pediatric Infectious Diseases Clinic. The Infectious Disease Service works closely with the microbiology, virology and serology laboratories and the infection control/hospital Epidemiology service at Le Bonheur, and the student will have educational opportunities in these areas. Students will also attend several weekly infectious disease conferences.

PED1-4120/F PEDIATRIC NEPHROLOGY

Course Coordinator: Dr. David Hains

Location: LBCH

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: This elective can be half-time (PED1-4120/H)

The Pediatric Nephrology elective provides students with an opportunity to apply their basic knowledge of renal physiology, acid-base balance, laboratory medicine, renal pathology, history taking and physical examination in diagnosing and children with renal disease. From 30 to 60 outpatients per week 12 patients in hemodialysis unit and 3 to 6 hospitalized patients at all times are available for teaching. Hematuria-proteinuria, glomerulonephritis, nephrotic syndrome, acute and chronic renal failure, hypertension, congenital genitourinary disorders, renal transplantation and fluid-electrolyte disorders are the most common renal disorders to be evaluated. Principles of both hemodialysis and peritoneal dialysis will be discussed. Observation of the renal biopsy procedure and review of the resulting histology are available. Weekly and monthly renal conferences and seminars are provided.

PED1-4130/F PEDIATRIC PULMONOLOGY

Course Coordinator: Dr. Dennis C. Stokes

Location: LBCH

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: This elective can be half-time (PED1-4130/H)

The elective in Pediatric Pulmonary Medicine provides students with an opportunity to see a variety of infants, children and adolescents with lung problems, including asthma, cystic fibrosis, chronic lung disease of infancy (BPD), as well as ventilator and technology-dependent children. The outpatient clinics include 40-50 patients per week and include common new patient complaints such as chronic cough, recurrent pneumonia, wheezing, sleep problems and exercise difficulty. Students will have an opportunity to observe and learn about useful diagnostic studies including pulmonary function testing in both infants and older children, flexible bronchoscopy, and polysomnography (sleep studies). Approximately 3-8 patients per week are admitted on the Pediatric Pulmonary service, including cystic fibrosis, and the student has the opportunity to participate in multidisciplinary team meetings dealing with complicated patients as well as several clinical and research conferences per week. Students are strongly encouraged to participate in ongoing clinical research or quality improvement projects of the section.

PED9-4010/F VISITING ELECTIVE IN PEDIATRICS

Course Coordinator: Dr. Jonathan McCullers

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC.

DEPARTMENT OF PSYCHIATRY

PSY1-3002/F PSYCHIATRY CLERKSHIP

Clerkship Director: Dr. Renate Rosenthal

Location: Memphis

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Core Clerkship in Psychiatry (7 credit hours). This four-week clerkship is required for all medical students. Students are assigned to a general inpatient service, or to a Consultation-Liaison Psychiatry Service, as their home base. Lectures, readings, case conferences, and mandatory exposure to Child Psychiatry and education in Electroconvulsive Therapy (live or on-line) round out the experience. The student is expected to gain a basic knowledge of psychiatric diagnosis, applied psychopharmacology, and non-pharmacologic treatment options. Emphasis is on information useful to students regardless of their future specialty choice. This clerkship is offered in Memphis year-round, and in Knoxville and Chattanooga during certain blocks.

PSY1-3010/F JI ANY - SENIOR CLERKSHIP IN ADULT PSYCHIATRY

Course Coordinator: Dr. Taylor Williams

Location: Memphis Mental Health Institute

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Not available on the scheduler. Available only through prior arrangement by course director, and only during certain months of the year!

This senior clerkship builds on the core clerkship experience, giving added responsibilities and increased autonomy to the student on the service. The student will be responsible for 3-4 inpatients and will assume the duties of a first-year resident while getting intensive supervision.

NOTE: BEFORE SIGNING UP, CONTACT DR. RENATE ROSENTHAL rrosenthal@uthsc.edu

PSY1-3011/F JI Any: SENIOR CLERKSHIP IN CHILD AND ADOLESCENT PSYCHIATRY

Course Coordinator: Dr. Jo Ranga

Location: Memphis. Lakeside Hospital, Boling Center, LeBonheur Psychiatric Consultation Service

Size: 1

Not available on the scheduler. Available only through prior arrangement by the Clerkship Director, Dr. Renate Rosenthal, and only during certain months!

Not during July and October.

Please contact Dr. Rosenthal at rrosenthal@uthsc.edu for more information and to arrange for a rotation!

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This senior clerkship evaluates and treats children and adolescents with psychiatric problems. The student will follow a limited number of patients in the Child and Adolescent Consultation service at LeBonheur Children's Hospital. The student will evaluate the psychiatric problems of children and adolescents, hospitalized at LeBonheur, design an interdisciplinary treatment plan, and work with families and caregivers to address the needs of the young patient. The student will have some responsibility for 3-4 patients. Students will be significantly involved in evaluation and treatment and are expected to assume ownership of their patients. They will work closely with faculty and Child

Psychiatry Fellows. Close (daily) supervision is provided. The student will participate in all rounds, clinical activities, and conferences with the Child Psychiatry Fellows. The Child Psychiatry Fellows take night call from home and make rounds on Saturdays. The student will join the Fellows on weekend rounds.

PSY1-4009/F Elective in AIDS Psychiatry

Course Coordinator: Juan Jaramillo, M.D.

448-6400

Note: Before signing up, please contact Dr. Jaramillo <jjaramil@uthsc.edu>

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours. Note: This elective can be half-time (PSY1-4009/H)

Note: Can be combined with another 2 week elective, like Hypnosis or Child Psychiatry.

The student will learn about the neuropsychiatric complications of HIV/AIDS and the effect of psychosocial issues on HIV prevention, adherence to antiretroviral medications and patients' ability to cope with chronic illness. The student will learn to perform a comprehensive, psychiatric diagnostic assessment of patients infected with HIV as well as crisis evaluation and management of patients at risk for dangerous behavior. Students will also have the opportunity to participate in the multi-disciplinary medical care of patients. The clinical site is the Adult Special Care Clinic, an HIV primary care outpatient clinic located at the Medplex (The Med outpatient clinic). When the preceptor is not in the clinic, students may collaborate with other clinic faculty and gather comprehensive psycho-social histories, and/or work with care managers to provide updated information on the patient's psychiatric status.

Depending on census, time may also be spent at the Med on the Psychiatry Consult-Liaison service, providing psychiatric care to HIV patients in an inpatient setting. If students see patients alone, they will present the case to the preceptor for discussion. The usual case load involves seeing 2-5 patients per outpatient session. There is no night call.

PSY1-4022/F HYPNOSIS

Course Coordinator: Dr. Allen O. Battle

448-6400

Location: 920 Madison

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: this elective can be half-time (PSY1-4022/H)

The student will attend psychotherapy sessions with the professor as well as psychological testing and clinical hypnosis sessions with the patients. Crisis intervention and suicide prevention will be emphasized. Readings on the various techniques of hypnosis and the utilization of hypnosis in a variety of psychological and medical conditions will be included. Handouts will be given and then tutorial sessions will be held as needed with the student.

PSY1-4069/F PRIVATE PRACTICE ELECTIVE WITH FOCUS ON MOOD DISORDERS

Course Coordinator: Dr. Radwan F. Haykal

Location: Lakeside Behavioral Health System

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

NOTE: This elective is not available on the scheduler, although it is available most months. PLEASE CONFIRM AVAILABILITY BY CALLING DR. RADWAN HAYKAL AT (901) 683-4500 and/or SENDING HIM an EMAIL at rhaykal@comcast.net and rfhmd@bellsouth.net PRIOR TO SIGNING UP. Once confirmed contact Ruby Bland rlbland@uthsc.edu to schedule.

The objectives for this course are to familiarize students with diagnosis and treatment of psychiatric adult patients in hospital, day hospital, and outpatient settings. The students will see around 15-20 patients per day, but will focus in-depth on 3-4 per week throughout their stay. Students will be part of a treatment team. They will not write in the chart, but will participate with the attending in formulating the treatment plan and in the structure of the documentation in each patient's chart. Full-time supervision by the course coordinator or his associates. The students will attend:

- 1) Bipolar Spectrum Lecture – 1xwk; Tuesday, 10:45 A.M. (Dr. Haykal)
- 2) Transformation Skills – 2-week course; Mon-Fri, 8:30 A.M. – 9:30 A.M. (Dr. Stanley)
- 3) Suicide Prevention – 2-week course; Wed, 1:00 P.M. – 3:00 P.M. (Dr. Tullis)
- 4) Trauma Resolution Groups – 1-week course; Thurs, Fri, 3:15 P.M.-5:00 P.M.
- 5) Bipolar Spectrum Multi-Family Group-2/4-week course; Tues, 7:00 P.M.-8:00 P.M.
- 6) For the 4-week rotation, addiction groups will be added in the second half block.

PSY1-4130/F ELECTIVE IN CHILD AND ADOLESCENT PSYCHIATRY

Course Coordinator: Dr. Jyotsna Ranga

Other Faculty: Drs. Valerie Arnold Najiba Battaile and Melissa Hoffman

Location: Boling Center, LeBonheur Psychiatry Consultation Service

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: This elective can be a half-time elective (PSY1-4130/H). PLEASE CONTACT Dr. Jyotsna Ranga jranga@uthsc.edu BEFORE SIGNING UP and wait for confirmation.

Objectives: To properly evaluate children and adolescents with psychiatric problems; to learn to design an interdisciplinary treatment plan; to work with families and caregivers to address the needs of the young patient. Students will work closely with faculty and Child Psychiatry Fellows. Students will not have primary clinical responsibility for the patients, but will be significantly involved in their evaluation and treatment. The student will participate in all rounds and clinical activities with the Child Psychiatry Fellows. This includes Thursday afternoon clinics at the Boling Center, consultations at LeBonheur. Activities will be set up according to a student's individual needs and interests. Call duties: The Child Psychiatry Fellows take night call from home and make rounds on Saturdays. There are no formal night and weekend duties for the students, but they are invited to join the Fellows to see interesting cases.

PSY9-4010/F VISITING ELECTIVE IN PSYCHIATRY

Course Coordinator: Department Chair

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC.

DEPARTMENT OF RADIOLOGY

RAD1-4010/F DIAGNOSTIC RADIOLOGY

Course Coordinator: Dr. Brian Green

Location: Methodist

Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The elective rotation in radiology at Methodist Hospital (Central) includes a minimum of six weekly conferences covering both broad, general and subspecialized areas of diagnostic radiology. The rotation also includes direct experience in nuclear medicine, computed tomography, ultrasound, general diagnostic radiology, and special procedures (including both angiography and interventional radiologic procedures). There is to be close contact with both attending staff and radiology residents with discussion of methods and diagnostic pathways.

RAD1-4012/F INTERVENTIONAL RADIOLOGY

Course Coordinator: Dr. Brian Green

Location: Methodist

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course will help the students understand the role of interventional radiology in the clinical assessment and treatment of patients. The student will have some responsibility for 10-15 patients per week. The students will participate in the work-up procedure and follow-up of assigned patients. The students will have complete supervision during procedures. Review and evaluation of students' work-up of patients will be done by either staff, fellows or residents. The students will attend general radiology conferences. The students will be responsible for case presentation to staff, fellows and residents on a pertinent topic in interventional/vascular radiology. The students will gain understanding of a variety of different procedures and techniques in vascular/interventional radiology. Students will make pre-procedure and post-procedure rounds on patients on the interventional/vascular service.

RAD1-4013/H PEDIATRIC RADIOLOGY (Half-time Only)

Course Coordinator: Dr. Harris L. Cohen

Location: LBCMC

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 credit hours.

Course Description: This course is designed as an introduction to the unique aspects of pediatric imaging over various ages of childhood. The objectives for this course are to increase student's awareness of the capabilities of the various imaging exams available for children appropriately and to improve their ability to correctly order such exams as well as diagnose various diseases with those imaging tools. Students will have some responsibility for viewing 25 cases a day under the supervision of faculty, residents, and fellows. Students will attend daily lectures, daily work rounds, and weekly specialty conferences. Students have the opportunity to shadow the on-call radiology resident at LeBonheur. Some perinatal work including fetal MR and fetal ultrasound will be used for improving student knowledge of perinatal imaging.

RAD1-4019/F RADIOLOGY RESEARCH ELECTIVE

Course Coordinators: Harris L. Cohen, M.D. and Asim F. Choudhri, M.D.

Location: LBCMC

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective requires prior approval of acceptance from one of the course directors. Acceptance via an interview to be scheduled through Cynthia Lavender-Owens-email Cynthia.lavender-owens@lebonheur.org

Note: Contacts for the research elective: Department Chair and elective co-director: Harris L. Cohen, M.D. (hcohen@uthsc.edu) Research elective co-director: Asim F. Choudhri, M.D. (achoudhri@uthsc.edu)

Goals and objectives of elective: At the end of this rotation, it is expected that the student will learn appropriate methods for effective and ethical clinical research. During the elective the student will:

- Obtain UTHSC IRB training through the iRIS website
- Learn to perform database searches of the electronic medical record
- Learn to save DICOM studies from the PACS archive
- Learn to anonymize imaging studies for research purposes
- Learn to use the Edactic teaching file software (edactic.com) for clinical research projects
- Learn how to critically review the literature and perform a literature search
- Learn how to formulate a research hypothesis
- Learn how to write and submit an IRB protocol and an IRB exemption
- Learn how to collect data and enter it into a secure database
- Learn how to write an abstract for a scientific meeting
- Learn how to create and present a presentation of original research
- Learn how to collaborate on clinical research projects with clinical colleagues from various medical fields
- Understand the concepts of peer-review
- Learn how to submit case reports, research articles, review articles, and letters to the editor for various journals, including the use of a journal's "Instructions for Authors" as a guide to formatting a submission
- Learn about journal impact factors and how they are calculated
- Learn the concept of the "h-index" and how it is calculated

Responsibilities:

1- Arrive by SAM, remain at work until SPM daily with appropriate time allotted for lunch. This will be expected Monday through Friday. There are no formal call responsibilities. This is intended to be a one month elective unless otherwise specifically stated and approved by the Department Chair.

2- During the elective time student will attend didactic lectures in the Department of Radiology and multidisciplinary conferences pertaining to their area(s) of research.

Expectations:

1- The student will participate in at least one existing research project, and formulate a hypothesis for a new research project

2- The student will write at least one IRB protocol, preferably evaluating a new hypothesis

3- Verbal progress reports will take place daily with mentors. Informal written progress reports will be expected weekly.

4- The student will participate in writing at least one abstract for a scientific meeting or institutional research seminar

5- At the end of the rotation, the student will provide to the Department Chair a written summary of actions performed during the rotation. The written summary will include references and figures.

6- The student will provide a formal presentation to the Radiology Department of research performed during the rotation

Additional opportunities for motivated students.

1- In addition to the formal responsibilities of the rotation, the student is encouraged to write and submit a case report for peer review based upon a case the student clinically participated in. The student should identify an appropriate case, perform a review of the medical chart, perform a literature search on the topic, speak with clinicians of various medical specialties who participated in the care of this patient and/or who are experts in the topic, identify an appropriate journal to submit the case report, write the case report in the format required for this journal, and submit the report. Radiological findings should be one key element of the case report.

2- The student is encouraged to identify areas of clinical interest to participate in formulation and writing of an unknown case, book chapter, review article, or other form of scholarly output. While such efforts will likely extend beyond the time period of the elective, only work performed during the elective will be considered when formulating the evaluation of the elective (i.e. the evaluation will not include description of future promised work, only work completed).

RAD1-4021/F INTRODUCTION TO CLINICAL RADIATION ONCOLOGY

Course Coordinator: Dr. Michael Farmer

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 or 3.5 credit hours.

This elective can be halftime RAD1-4021/H

The objectives for this course:

Patient Care

Our program is committed to training the most competent clinical physicians. Patient care is taught through one-on-one direct teaching interaction with attending staff that occur during the care of oncology patients. In addition, specialized training in physical exams (for example: head and neck exams, gynecological exams) are provided by the attending staff during the clinical rotations. Students are required to know the work-up and staging of each cancer type, how to develop and execute an appropriate radiotherapy plan to treat each cancer type, how to manage acute and late complications, and how to follow the patient after completion of treatment. These skills are taught individually in one-on-one direct clinical interaction with attending staff and through written teaching material. Assessment of competency in patient care is evaluated by the attending staff during the student's rotation.

Medical Knowledge

Students are required to gain a general understanding of clinical radiation oncology, radiation physics, and radiation biology. Medical knowledge is taught through case studies of patients under the care of the attending/resident team and through didactic lectures. Medical physics and radiobiology is taught through case studies of patients under the care of the attending/resident team. The medical, physics and biology knowledge base are assessed by a faculty evaluation during clinical case studies.

Practice Based Improvement

Our rotation is committed to train medical school students in the practice of evidence based medicine. Practice-based learning and improvement skills are taught through our daily planning clinics and clinical case discussions. During the rotation each student is expected to make weekly oral presentations concerning patient management to the attending staff. The attending staff will provide feedback concerning their presentation and engage the student in a discussion of relevant literature. We ask that the student select one disease site and study the published NCCN guidelines. They are then asked to take a brief oral examination on the topic or do an oral presentation. The degree to which the student understands evidence-based medicine is assessed at mid-rotation and at the end of their rotation.

Inter-professional and Communications Skills

Students are required to develop effective communication skills in patient care

management, communication with other physicians, and in scientific presentations. Communication skills are taught through didactic lectures and by direct feedback on patient presentations. As previously mentioned, trainees give several oral presentations per clinical rotation. During the rotation the attending physician will assess the students "tumor board" communications skills and medical knowledge.

Professionalism

Our department is committed to furthering the professional and ethical practice skills of our medical school students. Professionalism is assessed by the attending physicians.

Systems-Based Practice

During the clinical rotation individual faculty teach systems-based practice issues. As a department we strive to prepare students to work within the healthcare system, optimize cost and outcomes, improve the system, and transform the health care system. Students must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

The student will have some responsibility for 10 patients. The students are expected to perform a complete history & physical examination on assigned patients and present the pertinent findings to the attending physician. They are expected to follow the patient through the course of radiation planning and treatment. Students are expected to participate fully in all aspects of their training, including active participation in departmental meetings, and in teaching activities as directed by the program director.

The attending physician is expected to directly oversee all aspects of patient care, but involve the medical school student in decision making and radiation oncology based procedures. The attending physician is expected to engage the student in their education and test their patient care abilities, medical knowledge, understanding of practice based improvement, communication skills, professionalism, and understanding of systems based practice.

The student is expected to participate in daily tumor boards and planning clinics. A schedule of all conferences will be provided to the student at the time of the rotation.

From time to time there may be late consults or procedures, but weekend call or evening duty is not expected.

RAD9-4010/F VISITING ELECTIVE IN RADIOLOGY

Course Coordinator: Department Chair

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is to be used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted by UTHSC.

DEPARTMENT OF SURGERY

SUR1-3001/F SURGERY CLERKSHIP

Clerkship Director: Dr. Gayle Minard

Location: Memphis

This is a face to face clinical rotation offered all year and receiving 14 credit hours.

Core Clerkship in Surgery (14 credit hrs). This eight-week clerkship encompasses general, vascular, cardiothoracic, transplant, pediatric surgery, and trauma surgery. The objective of this clerkship is to familiarize the student with the basic pathophysiologic, diagnostic and therapeutic modalities involved in the art and science of surgery. The fundamentals taught in this rotation will be of benefit to individuals even if they do not choose a field of surgery as a career. The clinical rotations consist of four weeks at the Regional One Health at Memphis which includes general surgery, trauma/critical care and outpatient clinics, then 2 weeks of general surgery at the Veterans Affairs Medical Center, Baptist, St. Francis, or Methodist University plus 2 weeks of a subspecialty in surgery. In addition to this clinical involvement, each student is involved in several small group conferences as well as afternoon didactic lecture series delivered by members of the faculty. The student is also involved in a skills laboratory as well as videotape presentations, grand round sessions, and generous outpatient participation. This clerkship, with similar experiences, is also offered in Knoxville (SUR2-3001/F) and Chattanooga (SUR3-3001/F).

SUR1-3012/F JI ANY - SENIOR CLERKSHIP IN ADVANCED SURGERY

Course Coordinator: Dr. Steve Behrman

Location: Baptist

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective provides a unique opportunity to experience an extremely broad range of pathology from Memphis and the surrounding area in its role as a tertiary care institution. The elective is structured to provide intern-like responsibility for the senior student. In addition, special areas of interest are easily accommodated in this institution. The student is encouraged to attend all resident conferences and rounds. Enrolled students should contact Ramona Pipkin, Program Coordinator for the Department of Surgery for further instructions at (901) 448-5914.

This rotation is only available to visiting students from schools that have an agreement in place with Baptist Hospital's Medical Education Department for the student to be in the hospital.

SUR1-3013/F JI ANY - GENERAL/TRAUMA

Course Coordinator: Dr. Martin Croce

Location: Regional One Health

Size: 6

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Contact Ramona Pipkin, Program Coordinator for the Department of Surgery a week prior to start of your rotation @ 901-448-5914. If you are a visiting student from another institution, you must obtain a UT ID badge before beginning your rotation.

A combined experience in both general surgery and trauma. The student undertakes an advanced clinical role in patient care, including preoperative workup, operative management, and post-operative care under the direct supervision of the faculty. The student will acquire skill in bedside surgical procedures. There will be conferences and daily rounds with the house staff. Patient exposure will be at the Regional One Health. All enrolled students see how both blunt and penetrating trauma is managed in one of the busiest trauma centers in the country. This course is extremely beneficial to students considering a career in surgery, or emergency room medicine. Strong points include initial evaluation, multiple system injury, diagnostic studies and an immense O.R. experience. The Trauma ICU allows the student to gain experience in Ventilatory management, and hemodynamic, nutritional and antibiotic management.

SUR1-3014/F JI ANY - VETERANS ADMINISTRATION HOSPITAL SICU JUNIOR INTERNSHIP

Course Coordinator: Dr. Gayle Minard

Location: VA

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Not available in **Block 12**

The student will be able to manage patients in the ICU- -specifically ventilators, fluid management, surgical infection, and pulmonary artery catheters. The student will help coordinate care between patient, family, and consultants. He/she will also participate in procedures such as bronchoscopy, chest tubes, and central lines. The student will have responsibility for approximately five patients a day. The student will round on his or her patients and be responsible for communicating with the team, ICU team, ICU resident, and ICU attending. He or she will be responsible for management decisions with supervision from residents and attendings. "Topic of the Day" presentation 4 -5 days per week. All procedures are done with direct supervision by the ICU resident or general surgery residents or attendings. Rounds are four times a week with the attending. The student will attend three conferences on Wednesdays from 8:30 AM to noon – Basic Science Conference, Surgical Grand Rounds, and Morbidity and Mortality Conference. Call schedule consist of: work daily 7 a.m. – 7 p.m., during the week. Students take call two times a week (midweek and Friday or Saturday) with middle level surgical resident covering the ICU. Rounds on Saturday at 7 a.m.; Sunday at 7 a.m., if on call Saturday night.

This rotation requires students to undergo vetting under VA rules to include fingerprinting, an additional background check, and completion of training modules.

SUR1-4011/F TRANSPLANTATION SERVICE

Course Coordinator: Dr. James Eason

Location: Methodist University Transplant Institute

Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Enrolled students contact Ramona Pipkin, Program Coordinator for the Department of Surgery for further instructions (901) 448-5914

The purpose of this elective is to acquaint the student with the general principles of solid organ transplantation and afford them the opportunity to participate in a number of tertiary care surgical problem situations. The specific skills involve learning detailed aspects of renal, hepatic and pancreatic replacement, including indications, selection of donors and recipients, histocompatibility testing, preoperative care, and complications. Conferences will be held daily in the form of transplantation rounds conducted each afternoon with the course coordinator. Students will have additional surgical exposure to hepatobiliary cases and vascular access. Students are to attend all resident conferences.

SUR1-4020/F PLASTIC SURGERY

Course Coordinator: Dr. Robert Wallace

Location: Regional One Health

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: This elective can be half-time (SUR1-4020/H)

A surgical preceptorship with one or two faculty plastic surgeons. Emphasis on basic plastic principles as well as facial trauma. The student will function in pre-operative and post-operative care and operative surgery as a member of the surgical team. Enrolled students should contact Elizabeth Sauvé one week before rotation begins for instructions 901-448-1350 or esauve@uthsc.edu.

SUR1-4021/F ELECTIVE IN BURNS

Course Coordinator: Dr. William L. Hickerson

Location: Firefighters' Regional Burn Center at Regional Medical Center, Regional One Health

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: This elective can be half-time (SUR1-4021/H)

Co-Course Director Name William L. Hickerson, MD
Office Location 890 Madison Avenue, suite TG 030
Phone Number 901-448-2579
Email Address whicker1@uthsc.edu

Coordinator Elizabeth Sauve, CAP, C-TAGME
Office Location 910 Madison, #315
Phone Number 901-448-1350
Email Address esauve@uthsc.edu
This is your initial point of contact.

Faculty

Dr. Hickerson and Dr. Van Vliet and fellows assigned to the Burn Service for the month will supervise students in the evaluation and management of patients.

Introduction

The Burn Elective is a surgical preceptorship in the Burn Center. The student will function as a "junior extern" to care for burn and wound patients in the ICU and stepdown unit. They will work side-by-side with the burn fellow and faculty. The student will participate not only in the preoperative care but also the intra- and post-operative care of these patients. The student will gain insight into the pathophysiology of burns, the fluid and electrolyte requirements, and the operative and post-operative care of these patients.

Elective Goals

The goal of the elective is to expose the student to wounds and burns and learn to diagnose the problem, formulate a plan of action, and assist with the care of these patients. The student will also develop an understanding of the team approach to the care of burn and wound patients.

Elective Objectives

Patient Care: The primary objective of this rotation is to introduce the student to the field of burn and wound care.

Medical Knowledge: After completing this rotation, the student will understand the pathophysiology of burn injury and wound healing; understand fluid and electrolyte requirements of patients with burn injuries; be introduced to the pathophysiology and treatment of inhalation injuries; gain insight into the complex care of critically ill burn and wound patients; become familiar with the use of central venous catheters and other invasive lines.

Practice-Based Learning and Improvement: This rotation is intended to expose the student to multiple procedures and skills used frequently in burn care, which the student will use in other elective rotations.

Interpersonal and Communication Skills: The student will learn to communicate and interact with a multidisciplinary team.

Professionalism: The student will develop an understanding of the role of the burn surgeon as well as the roles of all team members involved in burn care.

Attendance and Required Experiences

A statement of attendance policy and any required attendance.

For example: Students will participate in all rounds and seminars of the section and perform histories and physical examinations on selected patients on the consultation service. Students will be directed to pertinent literature regarding patients being cared for on the service. Student will be responsible for initial evaluation of all patients. They will follow the patients daily, formulate plans of management, assist in their ICU and surgical care, and under the supervision of a resident and attending, will write orders and notes on all burn service patients. They will review diagnostic results daily on all patients.

Duty Hours

Students should expect to spend 40-80 hours per week

Rotation Weekly Schedule (*include hospital work, attending rounds, conferences, journal clubs, etc.*)

	Monday	Tuesday	Wednesday	Thursday	Friday
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7-8	Rounds	Rounds	Rounds	Team Conference	Rounds
8-9	Surgery	Surgery	Surgery	Clinic	Surgery
9-10					
10-11					
11-12					
12-1					
1-2					
2-3					
3-4					
4-5					

SUR1-4041/F SURGERY - SURGICAL ONCOLOGY

Course Coordinator: Dr. Martin Fleming

Location: Methodist and St. Jude

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours.

Note: This elective can be half-time (SUR1-4041/H)

This elective will acquaint the student with diagnosis, preoperative workup, staging and surgical management of cancer. Also emphasized will be the utilization of protocols and combination therapy integrating chemotherapy, radiation therapy and surgery in the management of cancer patients. This elective will also require attendance at the weekly tumor conference at the University of Tennessee, weekly surgical grand rounds, weekly tumor conference at Methodist Hospital and the weekly solid tumor working conference at St. Jude Children's Research Hospital. It will also include pre and postoperative bedside rounds and in-patients at both the Methodist Hospital and St. Jude Children's Research Hospital. Operative experience will be that of observing and assisting in surgery done at St. Jude Children's Research Hospital and at Methodist Hospital.

SUR1-4059/F RESEARCH IN SURGICAL AND TRANSPLANTATION IMMUNOLOGY

Course Coordinator: Dr. James Eason

Location: Regional One Health

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours. Note: This elective can be half-time (SUR1-4059/H).

Contact Ramona Pipkin at 901-448-5914 or rpipkin@uthsc.edu for instructions at least week before rotation begins.

The student will learn basic surgical immunology as it relates to trauma, nutrition, and transplantation. The student will select an area of particular interest in any of the surgical subspecialties and will be assigned a specific project which may involve literature and chart review as well as following specific patients who fall within this study group (EXAMPLE: A trauma patient who develops an infection, or a transplant patient who develops rejection). The student will be responsible for 2-4 patients per week. The student will follow with the faculty member those patients who are a part of the particular study group the student has selected. The student will be responsible for the review of the results of follow-up laboratory and radiological testing in the patient's

overall postoperative course. One faculty member will supervise one student at all times. The student will attend four major Surgery Conferences plus the weekly Transplantation Conference on a routine basis during the month. The student will periodically attend the Immunology Conferences. After the student has selected a particular problem or area of interest, the student will: (1) Review literature concerning immunology background for this area, (2) Accumulate data on patients who fall within this study group, (3) Perform and review results of various testing modalities, and (4) Follow-up of patients including further chart review. This month should produce enough data, that with additional time and study, the student should be able to produce at least one publishable paper USUAL CALL SCHEDULE. Minimal weekday call, No weekend duty.

SUR1-4060/F CARDIOVASCULAR SURGERY

Course Coordinator: Dr. Darryl Weiman

Location: Regional One Health and VA

Size: 3 (1 Each Hosp)

This is a face to face clinical rotation offered in the fall and spring and receiving 3.5 or 7 credit hours. Note: This elective can be half-time (SUR1-4060/H).

Contact Elizabeth Krapels for instructions - 901-448-1350 or ekrapels@uthsc.edu

An intensive exposure to the total surgical management of the adult cardiac patient is offered. Emphasis is placed on adequate diagnostic measures and the available therapeutic modalities.

This rotation requires students to undergo vetting under VA rules to include fingerprinting, an additional background check, and completion of training modules.

SUR1-4061/F VASCULAR SURGERY 4th YEAR ELECTIVE

Course Coordinator: Michael J. Rohrer, MD

Location: Methodist University Hospital

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The objectives for this course are:

- Students will gain experience in the diagnosis and management options for patients with peripheral arterial, venous, and lymphatic disorders.
- To become competent interpreting arteriograms
- To gain experience with the fundamental operations in Vascular Surgery including aortic reconstructions, distal arterial bypass grafting, and carotid reconstructions
- To gain experience with basic and advanced endovascular procedures and techniques
- To acquire the clinical and administrative skills necessary to succeed as a PGY1 General Surgery house officer

The student will participate in the care of the patients in the Vascular Surgery Service at the Methodist University Hospital, which typically has 20-25 patients.

The fourth year Medical Student will function in a capacity similar to that of the PGY1 General Surgery Resident.

The level of supervision will be similar to that provided over the PGY1.

The student will attend Monday a.m. interesting case conference. The student will also attend Tuesday a.m., Vascular Surgery City Wide conference and Thursday a.m. General Surgery/Vascular Surgery Journal Club.

Clinical responsibilities began with rounding in preparation for 6:00 a.m. Attending Rounds, and working throughout the day on the Clinical Vascular Surgery Service. No on call responsibility is expected. Enrolled students should contact Ramona Pipkin one week before rotation begins for instructions 901-448-5914 or rpipkin@uthsc.edu.

SUR1-4069/F VASCULAR SURGERY

Course Coordinator: Dr. Edward Garrett

Location: VAMC / Baptist

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The objectives for this course are the introduction to peripheral and endovascular surgery and interpretation of vascular labs. The student will perform diagnostic arteriogram and open exposure of common femoral artery. The student will act as first assistant on carotid surgeries and peripheral bypasses. The student will have some responsibility for 6-8 cases, 10 patients in the hospital as well as perform duties on an intern level in the ICU and the wards. The student will follow patients in clinics and assist in the OR. Direct supervisor of the student will be the vascular fellows and faculty. Tuesday 7 – 8 AM Vascular Conference and M & M, 3rd Thursday of month Journal Club. No nights, 1 weekend a month.

This rotation is only available to visiting students from schools that have an agreement in place with Baptist Hospital's Medical Education Department for the student to be in the hospital.

SUR1-4070/F PEDIATRIC SURGERY

Course Coordinator: Max Langham, M.D.

Location: LeBonheur Children's Medical Center

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This clerkship offers 4th year students an advanced clinical experience in the surgical care of infants and children. The service is a busy general pediatric surgical service located at LeBonheur Children's Medical Center, an urban 200 bed children's hospital. The faculty consists of five full-time board certified pediatric surgeons, with special expertise in the care of birth defects, minimally invasive surgery, pediatric trauma, and burns. Outpatient care of children with a broad range of surgical problems is provided through clinics held two and a half days each week. The goal of this rotation is to improve diagnostic and technical skills of the students and help prepare students interested in pursuing careers in surgery or pediatrics.

SUR1-4101/F PEDIATRIC SURGICAL ONCOLOGY ELECTIVE

Course Coordinator: Dr. Andrew Davidoff

Location: St. Jude Research

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The purpose of this elective is to gain an understanding of the diagnosis, treatment and follow-up of the common solid tumors in children. Gain an appreciation of the pre-operative and post-operative management of children with various malignancies. The number of patients per week for whom the student will have some responsibility for is 10-15. The student will assist with pre-operative work-ups, assist in operating room and make pre & post-operative rounds. The student will be under supervision of attending surgeons. The level of expected supervision of students will be direct faculty and fellows contact. The student will attend the following conferences: 1) didactic pediatric surgical oncology conference 2) soft tissue tumor conference 3) hematology/oncology grand rounds 4) tumor board 5) surgery management conference. Call schedule is flexible but the students will be seeing patients in outpatient and inpatient setting. The student will follow patients through operation and post-operatively. The student will assist in research if interested.

SUR1-4144/F SURGERY - PEDIATRIC CARDIAC SURGERY IN DEVELOPING COUNTRIES

Course Coordinator: Dr. William M. Novick

Location: Variable (see schedule)

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Available all blocks except for June and July (summer reserved for freshman students)

The objectives for this course are to provide the student with vertically integrated experience in pediatric cardiac care (diagnosis, pre-op care, anesthetic care, operative procedures, post-op ICU and ward care). The student will have the opportunity to study natural history of congenital heart defects. Provide the student with the opportunity to experience medical care in developing countries. Provide the UTHSC medical students with the opportunity to participate in Humanitarian Medical Services. The student will have some responsibility for 10 to 15 patients per week. The level of responsibility students will have for patient care will be to perform history and physical on all children. Participate in echocardiographic evaluation of all children. Learn to perform endotracheal intubation and insertion of I.V. line (peripheral), insertion of NG tubes, insertion of Foley catheters, (with direct attending supervision). Student will be responsible for morning and evening rounds on ward patients and will participate in ICU rounds. Students will be responsible for participating as an assistant in surgical procedures. Students will be directly supervised by Dr. Novick. The student will attend 2 Cardiology/Cardiac Surgery preoperative conferences at International site and 1 at LBCMC; 2 surgical defect conferences at international site; 1 morbidity/mortality conference at international site. Student will take ICU call 1 night in 4, week-end duty consists of ICU and ward rounds with Dr. Novick.

SUR9-4010/F VISITING ELECTIVE IN SURGERY

Course Coordinator: Department Program Director

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted at UTHSC.

DEPARTMENT OF UROLOGY

URO1-3010/F UROLOGY JUNIOR INTERNSHIP

Course Coordinator: Dr. Robert Wake

Location: VAH, Regional One Health and Methodist University

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This clerkship will familiarize the interested student in basic urology exam, and with the diagnosis and treatment of common urologic problems like voiding dysfunction, erectile dysfunction, incontinence, prostate cancer, bladder cancer, kidney cancer, testicular and penile cancer, stone disease. The student will have some responsibility for 15-20 patients per week. Students will be directly involved in the diagnosis of planning the evaluation of common urology problems noted above. The student will be trained in minor GU procedures like Foley placement, cystoscopy and suprapubic tube placement. They will also serve as 1st or 2nd assistant in GU surgical procedures. The student will be supervised at all times by residents and/or faculty. The student will attend monthly journal club, Friday morning mandatory conferences including x-ray conference, M&M, pathology conference, basic science conference on research and weekly chairman's conference presented in an oral exam format for the residents. Call schedule consists of one weekend per month required, more if requested.

URO1-4010/F GENERAL UROLOGY

Course Coordinator: Dr. Robert Wake

Location: VAH, Meth, Regional One Health

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The purpose of this elective is to acquaint the student with the general field of surgical urology including diagnoses, surgical and post-operative management. There will be associated weekly conferences. Those students interested in under-going further Urological experiences including research may make specific arrangements with the department.

URO1-4021/F PEDIATRIC UROLOGY

Course Coordinator: Dr. Dana Giel

Location: Le Bonheur

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: This elective can be half-time (URO1-4021/H)

The pediatric urology elective deals with urologic problems that are unique to the pediatric population. Students will spend full time with the urology residents and pediatric urology attendings at LeBonheur Children's Hospital, participating in surgical cases and attending urology outpatient clinics as well. This program is designed to acquaint students interested in urology with pediatric urologic diseases and surgeries.

URO9-4010/F VISITING ELECTIVE IN UROLOGY

Course Coordinator: Department Chair

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course number is to be used by UTHSC students only for scheduling a visiting elective at another medical school for which credit is granted by UTHSC.

NASHVILLE AND MIDDLE TENNESSEE ROTATIONS

The scheduling for clerkships or electives at Nashville St Thomas Midtown Hospital (formerly Baptist) is done through the scheduling process at Memphis. For general information about electives in Nashville students should call (615) 284-2522.

EME4-4030/F EMERGENCY MEDICINE – MIDDLE TENNESSEE

Course Coordinators: Dr. Mark Reiter and Dr. Jason Rubino-Clerkship Director

Location: St. Thomas Rutherford Hospital

Size: 2

This is a face-to-face clinical rotation offered in the spring and receiving 7 credit hours.

For general information about the EM Elective in Murfreesboro students should call 615-396-6449.

NOTE: Not offered in Blocks 3, 4 and 5

The objectives for this course:

Patient Care

1. Demonstrate efficient history taking skills on non-critical emergency department patients presenting with common ED complaints.
2. Demonstrate physical examination skills in the evaluation of non-critical patients presenting with common ED complaints.
3. Formulate a differential diagnosis of the most likely conditions based upon symptoms and signs.
4. Consider the differential diagnosis in order from the most serious pathology to the least.
5. Order and interpret common ancillary studies such as lab tests or radiographs on ED patients.
6. Institute appropriate therapy for common ED complaints.
7. Make decisions concerning the need for patient hospitalization.
8. Recognize and address abnormal vital signs.
9. Recognize critically ill patients and assist in the management of these patients under the supervision of an attending physician.
10. Demonstrate proficiency in procedural skills appropriate for the medical student level, under the direct supervision of an attending physician.
11. Establish the ability to manage 1 to 3 patients simultaneously.
12. Develop a history and physical examination approach, a diagnostic approach, and an initial therapeutic approach to patients presenting with illness or injury
13. Describe basic resources available for care of the emergency department patient.
14. Develop and carry out patient management plans.
15. Perform basic airway maneuvers

Medical Knowledge

Develop a basic level of knowledge to manage patients presenting with the wide varieties of illness or injury seen in the emergency department. Read and study current Emergency Medicine text book/ literature on relevant subjects and common medical conditions seen in the Emergency Department (students are encouraged and expected to read about conditions that they see during their shift to enhance their medical knowledge).

Practice Based Improvement

1. Locate and utilize scientific evidence in regards to their patients' health problems and the larger population from which they are drawn.

2. Utilize information technology to access online medical information and improve patient care.

Interpersonal and Communications Skills

1. Respectfully and effectively interact with patients.
2. Work well with faculty, nursing and emergency department staff.
3. Demonstrate respect for diversity and cultural, ethnic and emotional differences in patients.
4. Demonstrate effective listening skills and be able to provide information using verbal, nonverbal and written skills.
5. Demonstrate the ability to effectively use the feedback provided by faculty members.
6. Demonstrate effective participation in the healthcare team.

Professionalism

1. Arrive on time and prepared for work.
2. Dress appropriately.
3. Treat patients, family, staff, and other personnel with respect.
4. Demonstrate sensitivity to patient's pain, emotional state, and gender/ethnicity issues.
5. Convey a positive, caring attitude and demonstrate honesty and integrity when interacting with patients and families.
6. Introduce himself/herself to the patient and family as the medical student who will be taking care of them along with the attending physician.
7. Demonstrate an open and responsive attitude to feedback from faculty.
8. Maintain patient confidentiality
9. Become familiar with ED personnel and daily operations.

Systems-Based Practice

1. Discuss when coordinating care with a patient's personal physician is necessary to provide optimal care.
2. Adhere to standards for maintenance of a safe working environment.
3. Describe medical errors and adverse events.
4. Appreciate the importance of ongoing medical care after discharge from the emergency department.
5. Access prior medical records and studies for comparison as needed for ED patient care, and learn appropriate medical record documentation skills.

The student will have some responsibility for 20-30 patients per week. Students will evaluate emergency department patients under the supervision of the emergency medicine core faculty. Students will evaluate each patient and propose a diagnostic and treatment plan to their attending. All patients will be seen by an emergency medicine attending. The emergency medicine attending will write all orders, after discussion with the student. Beginning July 2015, students will attend the weekly 5 hour emergency medicine residency conference. No conferences are planned prior to July 2015. Students will work ~ 18-20 eight-hour shifts (plus wrap-up time) over the course of a 1-month period for a minimum of 40 hours a week. The student will have flexibility in choosing which days they will work, but is expected to choose a variety of different shift times and days.

FME4-4011/F MIDDLE TENNESSEE FAMILY MEDICINE ELECTIVE - MURFREESBORO

Course Coordinator: Dr. Chris Dunlap

Location: Saint Thomas Rutherford Hospital

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 or 3.5 credit hours.

**Note: This elective can be halftime FME4-4011/H
This course is not offered in June or July. This elective will accept fourth year students**

1. The objectives for this course:

A **Patient Care** - Fourth Year Medical students are expected to:

- a. Demonstrate the ability to perform a History and Physical pertinent to the management of the office patient.
- b. Demonstrate the ability to create a thorough and accurate medical record for each patient encounter.
- c. Demonstrate the ability to code each office encounter accurately.
- d. Provide excellent medical care to each patient and demonstrate an empathetic and understanding bedside-manner.
- e. Demonstrate the ability to present patient encounters accurately and efficiently to the preceptor in the office.
- f. Demonstrate the ability to formulate a thorough differential diagnosis and appropriate plan of care for each patient.
- g. Demonstrate the ability to recognize when patients are in need of being transferred to a higher level of care and proceed appropriately with their preceptor's guidance.

B. **Medical Knowledge** – Medical students must be able to demonstrate a solid fund of knowledge in the field of Family Medicine. Students are expected to:

- a. Describe/demonstrate appropriate management of common office situations such as the following:
 - i. Diabetes {Type I and II}
 - ii. Hypertension
 - iii. COPD
 - iv. Depression
 - v. Urinary tract infections
 - vi. Upper respiratory infections
 - vii. Otitis media
 - viii. Bronchitis/Pneumonia
 - ix. Health maintenance exams
 - x. Pre-participation sports physicals
 - xi. Smoking cessation
 - xii. Dementia
 - xiii. Minor trauma
 - xiv. OB care
 - xv. Dysfunctional uterine bleeding

C. **Practice Based Learning and Improvement** – Students must be able to evaluate their patient care performance and find ways to make improvements in their patient care. Students must be able to:

- a. Demonstrates the ability to initiate self-learning through reading, attending lectures, and asking pertinent questions to the attending physicians and house staff.
- b. Recognize personal strengths and limitations and demonstrate the ability to ask for assistance from upper level residents and/or attending physicians as needed.
- c. Recognize urgent and emergent issues that may arise with their patients as it relates to office based Family Medicine and manage them appropriately with supervision.

D. **Professionalism** – Students must always behave in a professional manner. Students must be able to:

- a. Demonstrate professional demeanor and compassionate care to all patients regardless of their gender, race, ethnicity, or sexual orientation.
- b. Dress in such a way as to comply with hospital professional dress codes.
- c. Treat all staff members and colleagues with respect and courtesy.
- d. Complete all medical records with honesty and accuracy.
- e. Demonstrate respect to the faculty and other attending physicians who have dedicated their time and expertise to their training.

E. **Interpersonal and Communication Skills** - Effective communication is key to effective medical care. Students must be able to:

- a. Demonstrate the ability to communicate effectively with patients in a way that is respectful and clear.
- b. Demonstrate the ability to communicate with patient families and provide anticipatory guidance to them during the course of the hospital stay or office visit.
- c. Demonstrate the ability to communicate with residents, consultants, and attending physicians in an accurate and respectful manner.
- d. Demonstrate the ability to communicate with the office and hospital staff in ways that are respectful and considerate.
- e. Demonstrate the ability to write clear and accurate patient care notes that provide excellent documentation of their patient encounters.

F. **System Based Practice** - Students must be able to understand and participate in a health care system that is often complex and diverse. Students must be able to:

- a. Work with their preceptor to coordinate care for their patients

- including consulting appropriate specialists to aid in their patient's care.
- b. Work with multi-disciplinary teams to provide optimal care for their patients. These teams may include doctors, nurses, pharmacists, therapists (ie. Speech, OT, PT, etc.), social services staff, administrative staff, and others as needed.
 - c. Understand what community resources are available to their patients and help coordinate these resources appropriately.
 - d. Understand different practice models and how patient care is performed by each model.

THE STUDENT WILL HAVE SOME RESPONSIBILITY FOR A MINIMUM OF 15 PATIENTS PER WEEK WITH THE OPPORTUNITY TO SEE MANY MORE BASED ON THE SKILL AND THE INTEREST LEVEL OF THE STUDENT. THERE WILL BE BOTH INPATIENT AND OUTPATIENT RESPONSIBILITIES.

The level of responsibility the students will have for patient care will be appropriate supervision. Direct supervision will be required for all hospital encounters and procedures. Indirect supervision with direct supervision immediately available will be provided for clinic visits with the expectation that the student will report immediately to the attending physician or resident for their assessment of the patient once the student has completed their plan.

There will be morning report each day at the hospital. Didactic lectures in a variety of Family Medicine topics will be given 3 times per week at the 1 o'clock hour in the clinic setting. Students will participate in day call one day per week and may participate in weekend rounds/call if they so choose.

MED4-3002/F MEDICINE REQUIRED SENIOR CLERKSHIP-NASH (INTERNAL MEDICINE)

Course Coordinator: Dr. Chris Trabue
Location: St Thomas Midtown - Nashville
Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This general internal medicine clerkship involves a broad array of clinical problems in a large hospital setting where the student will assume responsibility for patient care under the supervision of a resident and an attending physician. The clerkship emphasizes bedside skills, differential diagnosis, cost effectiveness, ethics, and management plans.

MED4-4112/F INFECTIOUS DISEASES-NASH

Course Coordinator: Dr. Mark B. Carr
Location: St Thomas Midtown - Nashville
Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective at St Thomas Midtown Hospital in Nashville offers a wide range of clinical cases in a large tertiary care setting. The student will make daily rounds with full-time faculty members in infectious diseases. The rotation provides one-on-one teaching with

a comprehensive review of Infectious Disease Medicine. In addition, the student will be offered the opportunity to attend morning report and subspecialty conferences. Time will be allotted to use the Library for reading and conducting literature searches. There is no weekend or night call.

OBG4-3010/F JI ANY – SENIOR CLERKSHIP IN OBSTETRICS – NASHVILLE

Course Coordinator: Dr. Georgia Ferrell

Location: Saint Thomas Midtown Hospital

Size: 1

Note:

This is a face to face rotation offered in the fall and spring and receiving 7 credit hours.

Note: **Available starting in Block 7 through the end of the year**

Objectives

Patient- Care Procedures:

- Diagnose labor
- Perform sterile speculum exams and diagnose rupture of membranes
- Perform cervical exams with correct assessment of dilation, effacement, and station
- Perform spontaneous vaginal deliveries
- Identify and repair lacerations
- Interpret tests of fetal wellbeing: NST, AFI, BPP, CST
- Perform OB ultrasounds to determine number of fetuses and fetal lie
- Perform immediate assessment of the newborn, demonstrate basic newborn resuscitation skills, and assign APGAR scores
- Understand the steps and play an active role in cesarean sections
- Complete obstetric emergency simulations for eclampsia, shoulder dystocia, operative delivery, intrapartum and postpartum hemorrhage, breech delivery, and episiotomy repair under the supervision of the OB attending staff
- Demonstrate basic surgical principles, including use of universal precautions and aseptic technique

Medical Knowledge

- Identify anatomic structures in the pelvis and perineum: musculature, fascial planes, vascular and nerve supply
- Describe basic physiologic changes in pregnancy
- Interpret common diagnostic tests in the context of normal pregnancy
- Describe the physiology of the placenta including transportation of nutrients and oxygen across the placenta to the fetus
- Demonstrate appropriate interpretation of fetal heart rate and contraction monitoring
- Describe the conduct of normal labor and delivery as well as the mechanisms of birth (stages)
- Understand basic postpartum care including lactation
- Discuss the role of basic nutritional support needed in low risk pregnancies
- Demonstrate basic knowledge of outpatient obstetrical care

Interpersonal & Communication Skills

- Communicate effectively with patients in a way that is respectful
- Demonstrate adequate listening skills

- Communicate effectively in routine clinical situations
- Communicate with residents, consultants, attending physicians in an accurate and respectful manner
- Document clear and accurate patient care notes

Professionalism

- Demonstrate professional demeanor and compassionate care to all patients regardless of race, ethnicity or sexual orientation
- Treat all staff members and colleagues with respect and courtesy
- Complete all medical records with honesty and accuracy
- Respect patient privacy and autonomy

Practice-Based Learning & Improvement

- Initiate self-learning through reading, attending lectures and asking pertinent questions
- Demonstrate responsiveness to constructive feedback
- Recognize personal strengths and limitations and demonstrate willingness to seek assistance

Systems Based Practice

- Become proficient at electronic medical records
- Understand what community resources are available and assist in the coordination of care for their patients
- Understand the role of physicians in advocating for appropriate women's health care
- Work within multidisciplinary teams to provide optimal care for patients

The student will have some responsibility for a minimum of 20 patients per week with the opportunity to see many more based on the skill and interest level of the student. Students will be expected to be involved in all aspects of patient care from admission to discharge including involvement in any necessary procedures. They will also be required to become proficient in the medical record, documenting patient encounters in a timely manner.

There will be daily teaching rounds on Labor and Delivery for board sign-out. The student will also have weekly didactic lunch lecture as well as a weekly fetal monitoring conference. The student will be expected to attend obstetrical simulation conference prior to completion of the rotation. The student will also attend the monthly meeting of the hospital perinatal committee

The call schedule will be 6AM-6PM Monday through Friday with the option of weekend call for interested students. Night call will be determined on a weekly basis with the plan to optimize student's availability for deliveries.

OBG4-4020/F GYNECOLOGIC ONCOLOGY ELECTIVE-NASHVILLE

Course Coordinator: Dr. Mike Milam

Location: Saint Thomas Midtown Hospital

Size: 1

Note: Available starting in Block 8 through the end of the year

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Objectives:

Medical Knowledge

- Describe the principals of postoperative care and the evaluation of common postoperative concerns including: postoperative fever, pain, decreased urine output and ileus
- Describe epidemiologic risk factors for each GYN cancer
- Demonstrate knowledge of relevant surgical anatomy for Gyn Onc procedures
- Describe prophylactic strategies to reduce postoperative complications
- Discuss the principals of wound healing and risk factors for wound disruption
- Discuss the evaluation and treatment of a disrupted wound
- Describe common presentations of Gynecologic cancers as well as associated risk factors
- Demonstrate knowledge of genetic disorders common to Gynecologic Oncology patient and associated risk reducing strategy
- Understand discharge criteria for a postoperative patient
- Demonstrate understanding of the human papilloma virus and role in the pathogenesis of cervical cancer
- Understand the basic principles of chemotherapy and radiation
- Demonstrate understanding of common complications associated with GYN malignancy including DVT/PE, SBO, dehydration, neutropenic fever, etc.

Patient Care-Procedures

- Provide postoperative care including voiding trials, drain removal, dressing changes, etc.
- Participate in minor Gynecologic Oncology procedures including LEEP, CKC, D&C and simple vulvectomy
- Participate in major Gynecologic Oncology procedures including exploratory laparotomy, hysterectomy with BSO and staging procedures, etc.
- Observe robotic assisted procedures and participate in simulation
- Demonstrate basic understanding of colposcopy
- Provide and assist resident in wound care

Interpersonal & Communication Skills

- Obtain complete history and physicals
- Assist resident with communication with the patient and family regarding postoperative care
- Provide complete and succinct patient care presentations on morning rounds

Professionalism

- Adhere to ethical principles and sensitivity to a diverse patient population
- Show respect for privacy and confidentiality of all patient information
- Develop and maintain an excellent work ethic by being prompt and involved

Practice-Based Learning & Improvement

- Identify resources to answer questions while providing patient care
- Demonstrate understanding of the basic concepts of quality improvement
- Use medical resources to better understand patient management and standard of care for the Gynecologic Oncology patient

Systems Based Practice

- Become familiar with working as a team in the operating room and understand the roles of each team member
- Assist in the coordinate care of hospitalized patients with various contributing care givers
- Identify clinical or social issues that help or hinder patient care

The student will see a minimum of 15 patients per week with the opportunity to see many more based on the skill and interest level of the student. Students will be expected to be involved in all aspects of patient care from admission to discharge including involvement in any necessary procedures. They will also be required to become proficient in the medical record, documenting patient encounters in a timely manner. The student will also be expected to provide appropriate care to post-operative patient under direct and indirect supervision by the resident and attendings.

Direct supervision will be required for all hospital procedures. Indirect supervision with direct supervision immediately available will be required for hospital encounters.

The student will be required to attend and participate in daily teaching rounds. There will also be a required weekly tumor board and preoperative conference.

The call schedule will be 6AM-6PM Monday through Friday with the option of night and weekend call for interested students.

KNOXVILLE ELECTIVES

DEPARTMENT OF ANESTHESIOLOGY

ANE2-4010/F CLINICAL ANESTHESIOLOGY - KNOX

Course Coordinator: Audie Smith, MD

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 3 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective provides an opportunity to experience the many facets of the practice of anesthesiology while emphasizing the role of the anesthesiologist as a perioperative physician. The main focus of the rotation is centered on supervised practical experience in the administration of intravenous, inhaled and regional anesthesia. Exposure to the anesthesiologist's role in critical care medicine, acute and chronic pain management, obstetrical anesthesia and pre-operative evaluation is also provided. During the rotation, medical students will have multiple opportunities to improve clinical skills in airway management, central venous and arterial cannulation.

DEPARTMENT OF EMERGENCY MEDICINE

EME2-4030/F EMERGENCY MEDICINE – KNOX

Course Coordinator: Leo Lamsen, M.D.

Location: University of Tennessee Medical Center

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Students participating in this elective will become acquainted with the diverse medical, surgical, and pediatric cases routinely treated in a busy Emergency Department. This Level I Adult and Pediatric Trauma Center treats approximately 70,000 patients per year and serves as the EMS and air-ambulance control for the area. Students will be encouraged to be involved in the care of acutely ill patients. This rotation allows the student the opportunity for a variety of different procedures. Students will be supervised at all times by an attending staff physician with an excellent opportunity for learning as they participate in patient care. All cases will be reviewed with faculty prior to treatment and final disposition.

DEPARTMENT OF FAMILY MEDICINE

FME2-3010/F JI ANY - FAMILY PRACTICE PRECEPTORSHIP – KNOX

Course Coordinator: M. David Stockton, M.D., M.P.H.

Location: University of Tennessee Medical Center

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Medical students at the M4 level may negotiate their learning activities with the course coordinator, as MANY options are available. Here is just one choice (traditional): University Family Practice (UFP), adjacent to the University of Tennessee Medical Center in Knoxville, is a 30 year old family medicine practice staffed by residents and faculty. Students provide patient care for a patient population that is diverse and challenging in their health care needs under the direct supervision of family medicine residents and faculty. Various procedures are performed in the office including colposcopy, LEEP, OB ultrasound, minor surgery, “no-scalpel” vasectomy, and others. Students may assist on procedures under direct faculty supervision. Students are also integrated into the UFP Inpatient Team, admitting and managing University of Tennessee Medical Center inpatients. Patient care activities with family physicians at the Community Free Clinic and West Hills Nursing Home round out the learning experience. The student’s clinical interests are definitely integrated into the curriculum of their elective. Rotation sites in the local or adjacent rural area with a board certified family physician in our area will be considered for approval.

FME2-4003/F AMBULATORY PEDIATRICS – KNOX

Course Coordinator: Larry Rodgers, M.D., F.A.A.P.

Location: Pediatric Consultants of East Tennessee, North
100 Tech Center Drive; Knoxville, TN

Max Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The students are expected to evaluate both sick and well infants, children and adolescents consisting of obtaining a history and performing a physical examination as well as perform accepted standard of care pediatric office procedures with direct supervision.

Direct one-on-one supervision will be by faculty course coordinator, rotating family practice residents assigned to this office and by pediatric board certified partners in this office. There will be weekly feedback to the student and an exit interview will be done.

At the final week of this elective, the medical student will be responsible for presenting a one-half to one-hour mini-seminar presentation on a general pediatrics topic (from a list of topics provided by the Course Coordinator) to the course coordinator and practice partners and family practice resident as a part of the family practice ambulatory educational program for this office. Also, the student is expected to attend all educational presentations by family practice residents rotating at this office.

No call is required during this elective

Following this course, students will be able to:

1. Describe the experience of a busy exclusive urban private pediatric practice with an academic affiliation
2. Describe the care of the child with special needs using the concept of a “medical home” in the private pediatric practice setting.
3. Describe the private pediatric practice care of children with pervasive developmental disorders, ADD, ADHD, psychosocial disorders, Trisomy 21, and the developing premature infant
4. Describe the continuity of ambulatory private pediatric practice with patients who need hospitalization

DEPARTMENT OF MEDICINE

MED2-3002/F REQUIRED MEDICINE CLERKSHIP (JUNIOR INTERNSHIP)-KNOX

Course Coordinator: Janet L. Purkey, M.D.

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 3 Students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Students develop skills of patient evaluation, daily management, and discharge planning on hospitalized patients with a wide variety of pathology. Work as part of a team consisting of a resident and interns with attending supervision. The JI works most closely with the upper level resident providing the mainstay of care for their assigned patients. Opportunity is provided to perform procedures such as thoracentesis, lumbar puncture, paracentesis, etc. as the need arises. Students also find time to gain teaching credits by working with third year students in the Simulation Lab.

MED2-3003/F REQUIRED SENIOR AMBULATORY CLERKSHIP IN MEDICINE-KNOX

Course Coordinator: Janet L. Purkey, M.D.

Location: University of Tennessee Medical Center (Knoxville)

Maximum Class Size: 4 Students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Students learn skills and develop knowledge of outpatient internal medicine. Patients are seen in a private practice office with experienced clinicians with one-on-one teaching. A variety of ambulatory experiences are provided, including general medicine, rheumatology, cardiology and gastroenterology.

SPE2-3001/F SPECIALTY CLERKSHIP - KNOX

Course Coordinator: Janet Purkey, M.D.

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 3 Students

Note: Offered in Blocks 10, 2, 4 and 5

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

SPECIALTY CLERKSHIP will be offered four times per year. The fourth year student is required to spend one week on the "Palliative" service which involves seeing patients with the Hospice/Palliative Nurses through Home Health. Students also spend time with the chaplains and the Palliative Physician. The other weeks are to include anesthesia, ICU and Radiology, however, if a student is going into any of these areas or rotating a full block in these areas, they may request one week of Pathology where the student spends one day in each area of the Pathology Department. We are able to accommodate other paths of diversity if requested early enough. This is a PASS/FAIL rotation. Attendance is required.

BIO2-401 I/F MEDICAL GENETICS-KNOX

Course Coordinators: Drs. Karla Matteson and Ilse Anderson

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

(Course is not offered in Blocks 3, 7 and 8)

This elective course combines clinical experience in the evaluation of genetic disorders with basic understanding of medical genetics. The clinical experience involves assisting in obtaining family pedigree, physical examinations of patients, investigative tests, differential diagnosis and genetic counseling. The course includes a rotation through the Cytogenetics Laboratory and the Biochemical and Molecular Genetic Laboratory with emphasis on the application of new cytogenetics and molecular genetic discoveries to clinical genetic practice. The topics to be discussed are: 1) Clinical case reports; 2) Disorders of inborn errors of metabolism; 3) Chromosomal syndromes (cytogenetic, molecular cytogenetic diagnosis, and comparative hybridization arrays) and 4) Molecular diagnosis. A short presentation on a case of interest is required.

MED2-3010/F – VISITING SENIOR CLERKSHIP IN MEDICINE-KNOX (Visiting Elective Only)

Course Coordinator: Dr. Janet L. Purkey

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This clinical elective in internal medicine affords the visiting medical student opportunity to develop advanced skills in comprehensive patient evaluation and management under daily supervision of medical faculty through the care of patients admitted to the housestaff service at UTMCK.

MED2-3030/F JI ANY - CRITICAL CARE INTERNAL MEDICINE-KNOX

Course Coordinator: Dr. Paul Branca

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The objective of this course is to learn about pathophysiology, the appropriate diagnostic process, and the best management techniques for common medical problems and acute medical emergencies in the Critical Care Internal Medicine setting. Our goals include learning the technical and interpretative skills of common procedures performed in a Medical ICU (ventilator management, arterial lines, Swan'Ganz catheters, etc.) The student will be expected to be the primary care provider for one or two critically ill patients under the supervision of an upper level medicine resident and critical care attending. The student will perform the admission history and physical examination and write the admission orders (under the supervision of the upper level resident). In addition, the student will present the patient on rounds in a problem and organ-oriented fashion. Daily orders will be written by the student on management rounds with the critical care attending. The student will also write problem-orientated daily notes and will be responsible for seeing that therapeutic plans are carried out.

MED2-4060/F CLINICAL CARDIOLOGY-KNOX

Course Coordinators: Drs. James Cox and Stuart Bresee

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This is a clinical elective offering the student an intensive experience in clinical cardiology under a single preceptor cardiologist for a four to five week period of time. During that time, the student will evaluate and follow a number of the cardiologist's patients, participate in their care, and accompany them to the cardiovascular laboratory and cardiac surgery as indicated.

Students will attend cardiology conferences, twice-weekly teaching rounds, weekly EKG teaching sessions and review a prepared sampling of the literature. Other literature reviews will be suggested as clinical material warrants.

MED2-4070/F CLINICAL ENDOCRINOLOGY-KNOX

(NOT AVAILABLE IN BLOCKS 7, 8 OR 12)

Course Coordinator: Bill Law, Jr. M.D., FACE/FACP, Chief, Section of Endocrinology

Location: University of Tennessee Medical Center; clinical experience occurs in the private office of Endocrinology Consultants of East Tennessee, located 5 miles from University of Tennessee Medical Center

Max. Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

(REQUIRES ADVANCED REGISTRATION)

Advance registration required - students must call Knoxville Student Affairs at least 3 blocks prior to registering.

This elective is designed to provide an opportunity for students to observe the outpatient evaluation and management of patients with a wide variety of endocrine disorders, including thyroid and parathyroid disease, osteoporosis, multiple endocrine neoplasia, pituitary disorders, etc. Students will work under the direct supervision of nine BC practicing clinical endocrinologists. Students can observe patients undergoing thyroid ultrasounds, U/S-guided fine needle biopsies of thyroid nodules, radioactive iodine therapies, and bone density testing. Additional experience in evaluation and intensive outpatient management of diabetic patients using insulin pumps, continuous glucose sensing, and multiple daily injection regimens will be incorporated through time spent with several specialized physician extenders and Certified Diabetes Educators in our office.

MED2-4080/F CLINICAL GASTROENTEROLOGY-KNOX

Course Coordinator: Dr. Thomas Young

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective is designed to acquaint the student with the clinical approach to the patient presenting with a GI illness including a pertinent history and physical, intelligent selection of laboratory, x-ray, and endoscopic studies to the ultimate culmination of diagnosis. Clinical management of the patient and therapy will be emphasized.

MED2-4090/F NARRATIVE MEDICINE IN CLINICAL PRACTICE-KNOX

COURSE OFFERED ON VARIABLE SCHEDULE – Students must contact the Office of Student Affairs for prior approval

Course Coordinator: Dr. Ronald Lands

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The general objective of the course is to allow a senior student medical student to learn more of what an illness means to a patient while building on what they have already learned about what a disease is. During the inpatient rotation, the student will participate on rounds with the House Staff Medicine Team allowing an opportunity to be exposed to 15-20 patients daily. The hematology clinic is two days per week, and the schedule averages 8-10 returns and 2-3 new patients per clinic session. The student will not have primary care responsibility for patients or the inpatient service, and therefore, will not compete with M-3 students doing their core clerkship or M4s doing their Junior Internship. They will participate with the attending in a consulting role in the hematology and palliative care rotations. The primary supervision will be one to one with attending. The student will only see patients that the attending evaluates, either in the clinic, on the internal medicine inpatient service. The student will follow the Department of Medicine Residency conference schedule including morning report, clinical-pathologic conferences, morbidity and mortality conference, safety and quality improvement, and the noon didactic lecture series. The student will be assigned readings relevant to patients encountered in the rotation and prepare one 15-minute presentation about any aspect of narrative medicine relevant to a patient encountered on the house staff medicine service. The student will practice reflective writing, including one page nightly during the rotation regarding something that touched, inspired or surprised him/her during that day. He or she may or may not share the details of this writing as desired. The student will complete one reflective work worthy of submission to a refereed journal. The student will see patients during the daytime only while working on the inpatient service and during the remaining two weeks of work in the hematology clinic. There will be no call schedule for the student during this rotation.

MED2-4100/F HEMATOLOGY - CLINICAL AND RESEARCH-KNOX

Course Coordinator: Dr. Wahid T. Hanna

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective introduces the student to disease of the hematopoietic system/Oncology, their diagnosis and management by combining clinical experience and introduction to relevant research in hematology oncology. Students will spend part of their time on the clinical service and part in clinical trials.

MED2-4110/F INFECTIOUS DISEASES CLINICAL BLOCK-KNOX

Course Coordinator: Drs. Russell Smith, John Narro and Mark Rasnake

Location: University of Tennessee Medical Center

Max. Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective will be to teach the student how to be an effective consultant and assist the student in improving his/her knowledge of infectious diseases. Upgrade the student's knowledge regarding the use of antimicrobial agents, and improve the student's understanding of the diagnosis and management of commonly encountered infectious diseases with attention to the use of the history and readily available laboratory tests. The student will be responsible for >5 new patients workups per week. Attending rounds will be held at least 5 days per week. At attending rounds the student will present his/her new patients to the attending physician. At the time of presentation the student should also have formulated an assessment and plan. The student will see new patients, make daily rounds on his/her old patients and be present at attending physician rounds. He/she will be responsible for a daily update of his/her patients to the attending. Faculty and residents will review patient assessments and plans of therapy. Students will participate in the outpatient clinics for HIV, TB, and STD's at the Knox County Health Department. Each student is given assigned reading materials.

MED2-4130/F CLINICAL PULMONARY DISEASE-KNOX

Course Coordinator: Tina Dudney, M.D.

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This is a clinical preceptorial type elective in pulmonary disease. The student will have opportunity to evaluate, follow, and participate in the management of patients in the office and when admitted to the University of Tennessee Memorial Hospital by the faculty of the Knoxville Pulmonary Group. In addition to improving clinical skills in history taking and physical examination, the student will have an intensive experience in the application and interpretation of blood gases, pulmonary function testing, radiologic study, and other diagnostic modalities in medical chest diseases. Lectures on Pulmonology topics will be available.

MED2-4140/F CLINICAL RHEUMATOLOGY -KNOX

Course Coordinator: Dr. Gary Klipple

Location: University of Tennessee Medical Center (Knoxville)

Max.Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Medical clerks in their senior year may elect a one or two month rotation in University Rheumatology. The purpose of this elective is to develop an approach to the assessment and management of articular diseases such as osteoarthritis or rheumatoid arthritis and of systemic rheumatic disease such as systemic lupus erythematosus. This includes an understanding of and proficiency in the musculoskeletal exam.

The format of this rotation is that of a clinical preceptorship. Students will have the opportunity to evaluate, present, discuss, document and participate in the management of private patients in the office setting and hospital consults. In these activities students work one on one with experienced faculty.

Teaching will include brief clinical lectures, case discussions, musculoskeletal x-ray reviews and demonstration of routine joint procedures such as aspiration and injection. At the beginning of the rotation, students will be given the 700 page *Primer on the Rheumatic Diseases* with suggested reading selections. In addition, students will participate in the Department of Medicine conference schedule including noon didactic lectures.

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

OBG2-3010/F JI ANY - SENIOR CLERKSHIP IN OBSTETRICS - KNOX

Course Coordinator: Dr. Bobby Howard

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This clerkship in obstetrics allows the senior medical student to attend all obstetrical clinics, including high risk clinics. During this time the student will work closely with a senior resident or staff member to gain greater insight into the management of difficult obstetrical problems. On non-clinic days and while on call, the student will participate by assisting in labor and delivery activities such as spontaneous vaginal deliveries, forcep deliveries, postpartum tubal ligations and cesarean sections. Attendance at the resident didactic series will be expected.

OBG2-4011/F HIGH RISK OBSTETRICS-KNOX

Course Coordinator: Dr. Bobby Howard

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 Student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The purpose of this elective is to help the student gain greater insight into Maternal-Fetal Medicine. Emphasis is on management of medical complications and fetal ultrasound. Close faculty contact provides exposure to the most recent advances in detection, prevention, and treatment of premature labor; the latest techniques in intrapartum management, and newest imaging techniques. Students performance of procedures will be directly supervised by residents or faculty. Each day the student will participate in daily antepartum rounds and weekly OB conferences. Grand rounds will be each Friday.

OBG2-4019/F OB/GYN ENDOCRINOLOGY-KNOX

Course Coordinator: Dr. Jeffrey Keenan

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The purpose of this elective is to introduce the student to disease of the reproductive endocrine system, its diagnosis and management by combining selected clinical experience and material for an introduction to infertility and care of patients with diseases and conditions of the reproductive system. These include endocrine disorders, congenital abnormalities of the urogenital tract, pelvic pain, pelvic neoplasms, and endometriosis. Students will spend part of their time in the office setting and part of their time in the operating room. The clinical orientation will involve direct patient evaluation and care under the direction of the attending faculty.

OBG2-4020/F GYNECOLOGIC ONCOLOGY-KNOX

Course Coordinator: Dr. Larry Kilgore

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The purpose of this elective is to provide the student contemplating a career in Obstetrics and Gynecology the opportunity to gain greater insight into the specialty with an emphasis on gynecologic oncology. Close faculty contact provides exposure to the most recent advances in detection, prevention, and treatment of gynecologic cancers. Students will gain experience in surgical and medical management of gynecologic cancer. Students will spend time in the operating room, colposcopy clinic, and the private office setting for gynecological oncology patients.

Department of Oral and Maxillofacial Surgery

SUR2-4011/F ORAL AND MAXILLOFACIAL SURGERY

Course Coordinator: Dr. Eric R. Carlson

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 student

Note: This elective can be half-time (SUR2-4011/H).

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will learn about the surgical management of oral and head and neck pathology and the correction of congenital and traumatic deformities. Acute trauma care is a major component of this service. The student will have some responsibility for inpatient care each week. Students will have the opportunity to perform minor procedures in the clinic, as well as the emergency room. Operating room activity is encouraged. All activities are supervised by the chief resident and attending. Management decisions are made only after being discussed with the resident and attending. A minimum of four (4) conferences occurs each week. Grand rounds occur on Monday and Friday mornings, and didactic lectures occur on Tuesday and Thursday mornings. The enthusiastic student will be encouraged to take first call with the resident. On-call activities will be predominantly related to management of maxillofacial trauma patients.

DEPARTMENT OF PATHOLOGY

PAT2-4010/F GENERAL PATHOLOGY - KNOX (Not available in Blocks 7, 8 or 12)

Course Coordinator: Dr. Lisa Duncan

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 Student

(REQUIRES ADVANCE APPROVAL)

Advance registration – Students must call Knoxville Student Affairs at least 3 blocks prior to registering

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The goal of the General Pathology Elective course is to provide an overview of the function of Anatomical Pathology (AP) and Clinical Pathology (CP) within the Department of Pathology at the University of Tennessee Medical Center.

The objectives for this course are to understand the function of the pathology “gross” room, understand the Surgical Pathology “sign-out” procedure, understand the basic elements of autopsy performance, learn to order and interpret laboratory tests for common clinical situations, gain an understanding of the operation of the major sections of a modern clinical laboratory and understand the role of pathology/ pathologists participation in the medical center.

Students will participate in regular teaching activities of the Pathology Department including daily lectures, demonstrations, and conferences. Specific conferences the students will attend are: Anatomic Pathology, Oncology Conference, Pulmonary Conference, Breast Conference, Quality Assurance Conference and GU Conference. Students will learn the role of the pathologist in patient care by observing procedures such as FNAs, bone marrows, frozen sections, processing surgical specimens, and autopsies. At the beginning of the rotation, a customized schedule will be made for the student, and time will be allotted for study in the following major subdivisions of pathology: Surgical Pathology Autopsy Pathology, Clinical Chemistry, Hematopathology, Blood Banking, Microbiology, and Cytology.

Upon conclusion of the elective, the student will have an understanding of the practice of pathology in a university medical center.

PAT2-4013/F FORENSIC SCIENCE/AUTOPSY (Not offered in Blocks 7 or 12)

Course Coordinator: Christopher Lochmuller, M.D.

Location: Regional Forensic Center, 2761 Sullins Street, Knoxville, TN 37919 (ph: 865-215-8000)

Max. Class Size: 1 student

(REQUIRES ADVANCE APPROVAL)

Advance registration – Students must call Knoxville Student Affairs at least 3 blocks prior to registering

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective is intended for any student who is interested in forensic pathology. The forensic autopsy is the focus from which evaluation of mechanisms of injury or illness and cause of death are determined. This information combined with the forensic investigation report (and any other sources of information, i.e. medical records, toxicology, etc.) is utilized to determine the manner of death. Opinions drawn from medical observations will be reviewed in light of their legal

significance. Opportunities to observe and perform forensic, as well as hospital autopsies, will be mixed with an introduction to legal consultation and testimony.

The student will demonstrate an understanding of the basic distinctions between hospital and forensic autopsies. They will participate in autopsy procedure as an observer/assistant and (as appropriate), a prosector. The students will be instructed how to properly complete an autopsy report and death certificate. They will be responsible for clinical information correlation report synthesis. They will maintain respect for, and ensure confidentiality with respect to, the personal medical information of the decedent and his/her family. Additionally, the student will maintain proper conduct with law enforcement and laboratory staff.

Although the student will participate in autopsy dissection, this will always be done with a faculty member and often with a resident in Pathology to ensure direct one-on-one supervision. The student will attend an average of five conferences per week, in anatomic and clinical pathology. There will be no night or weekend call.

DEPARTMENT OF RADIOLOGY

RAD2-4010/F DIAGNOSTIC RADIOLOGY-KNOX

Course Coordinator: Dr. Anton Allen

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student electing diagnostic radiology at The University of Tennessee Medical Center will observe radiology staff and residents performing daily radiographic work, advanced cross-sectional and nuclear imaging, fluoroscopic GI-GU procedures, and special procedures. The student will attend daily teaching rounds and work conferences. There are opportunities for oral presentations and other academic projects. The elective's main goals are to educate the student regarding: (1) the broad spectrum of diagnostic imaging used in modern patient care, (2) the critical role radiologist-clinician communication plays in management (and mismanagement) of patients, (3) the imaging test-of-choice for most clinical problems, (4) radiological radiation, safety and cost issues, (5) what their patient experiences when they order various radiological procedures and tests, and (6) some basic ("viewbox") imaging normal and abnormal

DEPARTMENT OF SURGERY

SUR2-3002/F REQUIRED SURGERY SPECIALTIES-KNOX

Course Coordinator: James Lewis, M.D.

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 4 Students

NOTE: NOT OFFERED IN BLOCKS 1 & 12

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This clerkship exposes the student to the Surgery Specialties of Orthopaedics, Ophthalmology, Otolaryngology and Urology, with one week spent in each discipline. The course will be graded as Pass/Fail and is offered in all blocks.

SUR2-3010/F JI ANY - CLERKSHIP IN ADVANCED GENERAL SURGERY - KNOX

Course Coordinator: Matthew Mancini, M.D.

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This clerkship offers the students an advanced clinical role in patient care including pre-operative evaluation, operative treatment and post-operative care under direct faculty supervision. It includes significant outpatient experience with one-on-one faculty involvement, evaluation of patients presenting with emergency conditions, and participation in advanced laparoscopic techniques. IV, EKG, and laboratory teams preclude the need for paramedical services by students, but students are expected to perform invasive monitoring and treatment procedures. Participation in resident conferences and rounds with house staff and faculty are expected.

SUR2-3020/F JI ANY - VASCULAR SURGERY-KNOX

Course Coordinator: Dr. Michael Freeman

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This clerkship will allow students to learn the diagnosis, evaluation, and medical management as well as surgical and endovascular treatment options for patients suffering from peripheral vascular diseases. They will develop the familiarity with the noninvasive vascular laboratory and participate in all aspects of patient care for patients on the vascular service assigned. Students will participate in both open surgical and endovascular treatment of patients on the vascular service. Under supervision of the attending surgeon and surgical resident, the student will also be involved in writing notes and orders, performing history and physical, instituting care, making diagnosis, evaluating problems, plan therapy and seeing consultations. There will be one formal vascular conference per week in addition to the conferences regularly held in the Department of Surgery.

SUR2-3030/F JI ANY - TRAUMA SURGERY - KNOX

Course Coordinators: Dr. Brian J. Daley

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Clinical performance at the level of a PGY1 and responses to Socratic questioning form the basis for evaluation. All six core competencies are assessed through daily and call interactions with the faculty.

The objectives of this senior clerkship are for the student to learn how to evaluate and treat the acutely injured patient. Each student will manage patients during resuscitation and evaluation

phase. They follow patients and coordinate care through initial treatment to their rehabilitation from acute injury. The students will be expected to assume primary control of a limited number of patients and will be responsible for working with their resident and faculty advisors to come up with appropriate treatment and plans. Students are also expected to see these patients during outpatient visits in the Trauma Clinic. Students must attend all conferences regularly held in the Division of Trauma/Department of Surgery and actively participate in discussion and lectures. Students are expected to take night call, but may set their own schedules for this.

SUR2-3031/F JI ANY - SURGICAL CRITICAL CARE-KNOX

Course Coordinator: Dr. Todd Nickloes

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will learn how to manage the critically ill and injured surgical patient (both pre- and post-operatively). In addition, they will learn how to use invasive hemodynamic monitoring and manage other support systems, such as ventilators, while dealing with multisystem failure and interacting with families of critically ill patients. The students will be expected to assume primary control of 1 or 2 critically ill patients during their shifts. They will perform admission history and physicals, write daily notes and orders, interact with the primary service and consulting services to help make diagnoses, evaluate problems and plan therapy. They will also see that the therapeutic plan is carried out. All of this will be done under the direction of residents who are assigned to the Critical Care Service, the Critical Care Fellow, and the attending physicians of both the Critical Care Service and the primary service. Students will be closely supervised by residents who are assigned to the Critical Care Service 24 hours a day, as well as the Critical Care Fellow and Faculty who are available 24 hours a day. They will also be supervised by the residents and faculty of the patient's primary service. Rounds with the attendings and residents are conducted at least twice daily. Critical Care Conferences to discuss management of critical care problems are conducted 2-3 times per week. In addition, there are daily Critical Care Service rounds, as well as the other conferences of the Department of Surgery, which include grand rounds, M & M conference, and x-ray conferences.

SUR2-3040/F JI ANY - SENIOR CLERKSHIP IN SURGICAL ONCOLOGY - KNOX

Course Coordinators: Dr. James Lewis

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

* Broad exposure to the diagnosis, evaluation, and multimodal treatment approach to a variety of cancers

* Intensive exposure to both the outpatient and inpatient management of patients with malignant disease.

* Outpatient: responsible for performing history and physical examinations on patients with newly diagnosed malignancies; analyzing treatment options for both new and returning patients.

* Inpatient: daily rounds under the supervision of the resident and attending staff, write progress notes, and assist in surgical procedures.

- * Attend the weekly conferences of the Department of Surgery, and participate in the weekly Multidisciplinary Tumor and Breast Disease Diagnosis and Management Conferences.
- * Weekly didactic session with a faculty proctor to guide the student's literature review of a particular topic in surgical oncology.
- * Students' presentation of the review topic to the members of the surgical oncology division.
- * One or two days may be spent with a faculty proctor in Radiation Therapy or Medical Oncology to allow the student an opportunity to understand more fully the concept of multidisciplinary cancer care from each disciplines perspective.

Objectives of Clerkship:

- * Improved understanding of cancer biology, surgical treatment approaches to both primary and recurrent cancer.
- * Improved understanding of the integration of other treatment modalities in the overall management of malignant diseases.

SUR2-4018/F Transplant Elective

Course Coordinator: Dr. Alex Cantafio

Location: University of Tennessee Medical Center

Max. Class Size: 2 students

The students will become familiar with the care and management of Kidney and pancreas transplant recipient, living kidney donors and patients with end stage renal disease. The students will have some responsibility for 3 to 6 patients per week. The level of responsibility students will have for patient care will be to function as a junior intern in care and management of transplant patients to facilitate flow of patients in the hospital and clinic as well as participate in surgical procedures at a level commiserate with skill and experience. The students will receive direct supervision by attending surgeon and PGY2 resident. The student will attend selection committee to discuss donor and recipient candidates, morbidity and mortality conference, general surgery grand rounds, and optional participation in GI tumor service. For non-patient care the typical procedure and activities the students will perform will be kidney transplant and vascular access. No in-house, overnight call. One weekend day rounds every other week.

SUR2-4024/F ADVANCED LAPAROSCOPIC SURGERY - KNOX

Course Coordinator: Dr. Gregory J. Mancini

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 3 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The students will learn the fundamentals of Advanced Surgical Technologies, optics, energy sources and staplers. The students will learn the basics of Laparoscopic physiology and anatomy. They will gain exposure to Laparoscopic simulator and dry lab skills experience. The students will see 3 to 10 patients per week. The students will work with residents and faculty to care for patients. They will make daily rounds, attend operative cases and evaluate patients in the clinic for pre- and post-operative care. Students are expected to work as an integral surgical team member during the rotation. Students will receive a high level of supervision from residents, faculty on the wards, in the OR, and in the clinic. Students will have a weekly lecture given by the participating (4 total lectures) faculty. Subjects will focus on advanced laparoscopic techniques, anatomy and physiology. This

rotation/elective is a “patient care” elective. Additionally students will be given access Laparoscopic Laboratory facilities and will be provided with faculty teaching to learn basic Laparoscopic operative skills. Call will not be required for participation in this rotation.

SUR2-4150/F INTRODUCTION TO PHYSICAL MEDICINE & REHABILITATION

Course Coordinators: Drs. Jeffrey S. Hecht

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 student

Note: This elective can be half-time (SUR2-4150/H)

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Students who complete this rotation have expanded their knowledge of the musculoskeletal system and the central and peripheral nervous systems. Students will develop a beginning level of competence in management of patients with disability through exposure to an academic rehabilitation practice. This will include rehabilitative history, examination, and exposure to rehabilitation in several settings. Students will develop skills in management of complex wounds. The students will have some responsibility for about 4-6 patients per week. By the latter part of the rotation, students will examine patients, take a rehabilitative history, and work with the attending physiatrist to develop a rehabilitative plan. They will be able to follow their patients through therapy in the inpatient setting. Students will monitor their patients and directly report to the attending physician. Students will work closely with the attending faculty. The settings are University Hospital for Consultations, the outpatient UT Wound Center, an acute Inpatient Rehabilitation Center, and a Skilled Nursing Facility with a Rehabilitation unit. The attending physiatrist is a member of the Surgery department and attends Surgery Grand Rounds on Thursdays. The students will not be on call during this rotation. Students will have weekends free to study and enjoy the Knoxville area.

Interested students are asked to contact Dr. Hecht at least a week in advance by text or call to 865-209-6089 to make arrangements regarding where to meet and what to read.

NSG2-4010/F NEUROSURGERY-KNOX

Course Coordinator: Dr. James Killeffer

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will serve under the preceptorship of the faculty at The University of Tennessee Memorial Hospital and will become familiar with cranial and spinal trauma, tumors, congenital malformations, vascular disease, and benign spinal disease. The student will scrub and assist the staff with operative procedures, participate in peri-operative care, and will become familiar with neuroanatomical basis of diagnosis and treatment.

ORS2-4010/F ORTHOPAEDIC SURGERY-KNOX

Course Coordinator: Dr. Scott Smith

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Serving the tenure on orthopedics, the student will attend several weekly orthopedic conferences of varying types as well as attend the general orthopedics and fracture clinics at the UTRMH. Rotation in the office of an attending staff with participation in patient care will be required during the clerkship. The student will be given the opportunity to develop diagnostic skills and participate in active treatment of patients, including case application, manipulation of simple fractures, attending surgery and helping with post-op cases.

SUR2-4020/F PLASTIC SURGERY-KNOX

Course Coordinator: Dr. Joseph Chun

Location: University of Tennessee Medical Center (Knoxville)

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The Plastic Surgery Elective rotation is open to any 4th year student who is interested in pursuing a career in this specialty, or who would like to polish their surgical skills in preparation for a residency in another area. The student will be exposed to a wide variety of problems including facial trauma, head and neck reconstruction, breast surgery of all types, extremity trauma and body contouring procedures. We expect the student to function at a high level, and perform the duties of a 1st year resident. There will be close and intense supervision, and the student will work with our entire full-time faculty. This will be an energetic, stimulating, fun and educational surgical experience.

SUR2-4070/F PEDIATRIC SURGERY-KNOX

Course Coordinator: Dr. Glaze Vaughan

Location: UTMC-K and East TN Children's Hospital

Max. Class Size: 1 student

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will be an integral part of the Pediatric Surgical Team and will learn to evaluate and manage pre- and post-operative pediatric surgical patients including neonates and multisystem trauma victims, and will assist in their operative care. Related opportunities to learn the essentials of pediatric enteral and parenteral nutritional support, invasive and non-invasive monitoring procedures and techniques, respiratory support techniques, and a variety of pediatric vascular access procedures will be available. The student will learn to refine communication skills in dealing with patients' families and the children themselves. Students will be on call every fourth night. Patients will be assigned to the student and he/she will be responsible for daily assessment, progress notes, and execution of the therapeutic plan. Direct supervision will be provided by the Pediatric Surgery Resident and Faculty, each of who is accessible 24 hours a day. Rounds with residents or faculty will be held at least twice daily, and informal conferences will be held at least twice a week. One such conference during the rotation will be the responsibility of each student, where a researched, bibliographed and outlined

presentation on a topic of his/her choice will be presented to the other members of the service.

URO2-4010/F UROLOGICAL SURGERY-KNOX

Course Coordinator: Dr. Bedford Waters

Location: UTMC-K

Max. Class Size: 2 students

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will act as an Intern on this service and be exposed to all aspects of a University based Urology Service. The student will be responsible with one house staff member for approximately 25-30 patients and will assist in surgery. The student should obtain good 'hands on' diagnostic urological skills and be given duties commensurate with demonstrated ability, knowledge and skills. The student will attend Surgery Grand Rounds, and the weekly M & M and Cancer Meeting Conferences. In addition, the student will participate in the monthly GU Radiology Conference.

OTHER ROTATIONS

IDE2-4010/F PREPARATION FOR RESIDENCY SKILLS THROUGH SIMULATION - KNOXVILLE

Course Coordinator: Paul J. Huffstutter MD

Location: UT Graduate School of Medicine Medical Simulation Center _

Max. Class size: 10

Note: Offered in Blocks 2, 3 and 4

This is a face to face clinical rotation offered in the spring semester

Patient Care- This program is committed to the teaching, practice, and achieving proficiency in a set of standardized technical tasks and procedural skills designed for senior medical undergraduates utilizing simulation in their preparation for residency. The skills will be taught to a "mastery level" with a certificate of completion for each skill. The environment will be the UT Center for Advanced Medical Simulation at UT College of Medicine, Knoxville Campus. Upon completion of the course, learners are expected to:

1. Demonstrate a working knowledge of sterile technique
2. Identify commonly used surgical instruments.
3. Demonstrate proficiency in basic suturing and knot tying.
4. Explain basic wound care.
5. Demonstrate the ability to place urethral and nasogastric catheters.
6. Perform a thoracentesis and insert a thoracostomy
7. Demonstrate mastery of central line placement using ultrasound guidance
8. Demonstrate basic resuscitative principles.
9. Establish control of airway.
10. Demonstrate basic endoscopic skills to include bronchoscopy, endoscopy and colonoscopy.
11. Successfully investigate medical topics through library research.
12. Demonstrate proficiency in transition of care handoffs.
13. Complete Observed Structured Clinical Exams (OSCE) for communication skills and history and physical completion.
14. Demonstrate a basic working knowledge of health team principles.

Medical Knowledge: Medical students must demonstrate a basic fund of knowledge in order to master these tasks and skills. Students are expected to:

1. Describe/ demonstrate the steps involved in each skill/ task.
2. List the indications, contraindications and risks for each task.
3. Identify the process for successful library utilization and research
4. Summarize a format and technique for "handoffs".
5. Demonstrate proper technique for communicating medical information.
6. Demonstrate skills for taking a medical history and performing a physical.
7. Discuss the composition and characteristics of effective medical teams.

Practice Based Improvement: This course is designed to train learners in the practice of evidence-based medicine using simulation. Each task/ skill will be exhibited with time allotted for dedicated practice followed by assessment of each skill. At completion of the course learners will be able to:

1. Demonstrate self- learning through participation in simulations, dedicated practice of skills, research of literature, and assessment of each task/ skill herein described.
2. Participate in self-assessment activities related to each skill.
3. Recognize personal strengths and limitations.

4. Assess the value of this course.

Inter-professional and Communications Skills: Effective communication is an absolute requirement for effective medical care. Students must be able to:

1. Demonstrate the ability to communicate effectively with staff, patients and colleagues.
2. Demonstrate effective communication skills in a simulated medical environment involving standardized patients.
3. Demonstrate the ability to accurately document findings in simulated patient encounters using standardized patients.
4. Guide communication skills within a medical team.

Professionalism: All tasks/ skills instruction, practice and assessment will be carried out in a professional and ethical manner. Specific professionalism issues will be addressed during team training as outlined in AHRQ's team STEPPS program. Students will be able to:

1. Demonstrate professional demeanor at all times while in the Simulation Center.
2. Treat all Staff and colleagues with respect and courtesy.
3. Complete all skills with honesty and accuracy.
4. Assist Staff and colleagues in completing their goals for this curriculum.

Systems Based Practice: Learners must show evidence of a working knowledge of healthcare systems including their role in the patient's overall healthcare plan. Students will be able to:

1. 1. Recognize the characteristics of effective medical teams and their relationship to health systems.

Direct supervision will be provided for all skills instruction and most of the learner's dedicated practice time. Staff will be present for all assessments and available throughout the 4 week course. Each task/ skill will be preceded by a short didactic lecture and expert video/ demonstration of the task/ skill. Short lectures (30-45) minutes will precede the library research, team training and hand- off exercises. OSCE's will be conducted for communication skills and history and physical exams.

IDE2-4040/F CAPSTONE COURSE – Knoxville

Course Directors: Dr. Eddie Moore

Course Coordinator: Missy Maples (MMaples@mc.utmck.edu 865-305-9618)

Maximum-15

Minimum-5

Grading-P/F

Note: OFFERED IN BLOCK 2 ONLY

This is a face-to-face clinical rotation offered in Block 2 and awards 7 credit hours.

The Course includes:

Back to Basics.edu- more opportunities to review basic science concepts in the framework of clinical cases; Business of Medicine- TBL's using the HealthCare Handbook written by medical students Askin and Moore. Faculty will discuss topics such as health care reform, insurance, and regulatory agencies; EBM-Improve your skills in searching the literature to answer clinical questions; Intern school-Focus on skills to prepare students for life as a house officer, including radiology review, ECG review, what

to do on call, line placement and intubation skills, and other skills important for internship and residency; legal issues in medicine; Teaching-Academy- learn teaching and learning techniques for residency and beyond.

CHATTANOOGA ELECTIVES

Clinical training for medical students at the University of Tennessee College of Medicine Chattanooga is based primarily at Erlanger Health System. This outstanding facility is a comprehensive, not-for-profit teaching hospital and the area's recognized leader in health care. Erlanger actually houses three main inpatient components: Baroness Erlanger Hospital (adults), T.C. Thompson Children's Hospital (pediatrics), and Willie Miller Eye Center. The entire complex is licensed for more than 800 beds. The Erlanger Medical Staff has over 900 physicians and the UT College of Medicine Chattanooga has a resident/fellow complement of 172 (2012-2013).

The UT College of Medicine Chattanooga currently sponsors nine residency programs: Emergency Medicine, Family Medicine, Internal Medicine, OB/GYN, Orthopaedic Surgery, Pediatrics, Plastic Surgery, Surgery, and a Transitional Year Program. It also sponsors six fellowship programs: Colon and Rectal Surgery, Hospice and Palliative Care, Minimally Invasive Gynecologic Surgery, Orthopaedic Trauma Surgery, Surgical Critical Care, and Vascular Surgery. Discussion is underway to begin a Neuro-Interventional Surgery Fellow in July 2013.

UTHSC students who wish to schedule clerkships and electives in Chattanooga can do so through the regular scheduling process in Memphis with Dr. Robert Shreve and his staff. Senior, non-UT students desiring an elective rotation in Chattanooga must schedule through the AAMC's VSAS system (allopathic and osteopathic students) or via a Visiting Student Elective Application Form (International students). The elective request must be approved by the visiting student's Dean's Office. Next, the request must be approved by the chair of the department in Chattanooga and the Associate Dean in Chattanooga (Dr. Robert Fore). Finally, the request must be approved in Memphis by the Associate Dean of Academic Affairs (Dr. Shreve).

Parking is provided by the hospital at no cost to students. Also, funding for \$50 per week is provided via a swipe card for medical student to use in the main Erlanger Cafeteria. Questions may be addressed to the Office of Medical Education in Chattanooga. The office is located in Suite 104, Whitehall Building (directly across the street from Erlanger) at 960 East Third Street. Tammy Fite, GME Coordinator, or Pam Scott, Director, can be reached at the address below or by calling **toll-free number 1-800-947-7823, extension 7442 (e-mail: gme@erlangers.org)**. **Housing requests should be made online as soon as rotations are scheduled: <http://www.utcomchatt.org/subpage.php?pageId=1053>**

SPE3-3001/F SPECIALTY CLERKSHIP-CHAT

Course Coordinator: Dr. Gary Malakoff

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Available in Blocks 2, 3, 4, 5, 7, 8, 9, 10 and 11 with approval from Gary Malakoff, MD.

This rotation provides a variety of specialty exposure to four of the following areas: Hematology, Neurology, Pulmonology, Infectious Diseases, Gastroenterology, and Rheumatology (one week each). Grading is given on a Pass/Fail basis.

DEPARTMENT OF EMERGENCY MEDICINE

EME3-3030/F JI ANY - EMERGENCY CARE MEDICINE-CHATT

Course Coordinator: Sudave Mendiratta, MD

Location: Erlanger Adult Emergency Department

Size: 3

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Not available in Block 7.

The student will have the opportunity to assist in the evaluation and management of critically ill and injured patients under the direct supervision of senior residents and faculty from the Department of Emergency Medicine. The student will assist in procedures such as wound management, trauma resuscitation, fracture reduction and splinting, central venous access, and cardiopulmonary resuscitation. A total of 20 hours of didactic education is provided and based on the Model of Clinical Practice of Emergency Medicine and may include topics such as: acute emergency procedures, poisoning and drug management, ECG interpretation, and management of life threatening and other arrhythmias. The student will have a direct role in patient care similar to that of a first year resident but will be more closely supervised and directed. Students will be expected to independently perform a history and physical examination, and develop a differential diagnosis and treatment plan for common emergent conditions. This elective is intended for motivated students interested in pursuing a career in emergency medicine, and requires frequent overnight and weekend clinical responsibilities.

DEPARTMENT OF FAMILY MEDICINE

FME3-3001/F FAMILY MEDICINE CLERKSHIP-CHATT

Clerkship Director: J. Mack Worthington, MD (also Chair, Department of Family Medicine)

Location: Erlanger and the UT Family Practice Center in Chattanooga

Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 14 credit hours.

The goals, objectives and projects for the Family Medicine Clerkship are comparable at all UT sites (Memphis, Knoxville, and Chattanooga). An experienced faculty gives the lectures and the number of students is small, providing an environment that allows students to interact with the faculty. The rotation is divided into two four week blocks one with the inpatient service the other primarily ambulatory. There are two options available for the type of ambulatory experience in which the student may participate. These include the student working with the faculty and residents at the UT Family

Practice Center or with a community family physician. Both options provide excellent educational opportunities for students to learn comprehensive and compassionate care of the whole family. Students are involved in patient care with their attending physicians (and/or residents) in the outpatient setting as well as with hospitalized patients. In addition, they attend resident conferences and have informal teaching interactions with the faculty members – including community physicians. Throughout the rotation they are offered the opportunity to participate in ultrasound clinics and the weekly prenatal clinic.

Students should expect to participate on night call activities to enhance their learning opportunities.

Continuing medical education and life-long learning are emphasized by requiring students to read daily and report on their reading.

FME3-3010/F FAMILY MEDICINE SENIOR CLERKSHIP-CHATT

Clerkship Director: J. Mack Worthington, MD (also Chair, Department of Family Medicine)

Location: Erlanger and the UT Family Practice Center in Chattanooga

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

NOTE: all blocks available but requires approval of the clerkship director

The clerkship offers students the opportunity to gain experience with hospitalized and ambulatory patients in a family medicine environment. The student will function as an intern with the responsibility for evaluation of inpatients and out outpatients, preparing medical records and coordination of care. The student will be directly or indirectly supervised by both resident and faculty, based on demonstrated skills of the student and risk of the procedure/skill. The Department of Family Medicine in Chattanooga utilizes the AAMC and ACGME work hour policies for student and resident schedules.

Students should expect to participate on night call activities to enhance their learning opportunities.

Continuing medical education and life-long learning are emphasized by requiring students to read daily and report on their reading.

FME3-4010/F ADVANCED FAMILY MEDICINE PRECEPTORSHIP-CHATT

Location: Erlanger and UT Family Practice Center

Course Coordinator: J. Mack Worthington, MD (also Chair, Department of Family Medicine)

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

NOTE: all blocks available but requires approval of the clerkship director

The primary purpose of this rotation is to allow senior medical students active participation in the care of patients in a comprehensive Family Medicine setting through

selecting from a group of opportunities. Students can expect to achieve the following objectives: (a) Improve skills in providing patient centered care; (b) Exposure to a variety of types of care provided by family physicians; and (c) Development of a better understanding of the scope of Family Medicine. Available opportunities include: Hospital, Academic Office, Private Office, Nursing Home, Prenatal Clinic, Hospice, Addiction Treatment, and Primary care of Disabled Persons. Students will share in the clinical management and care of the assigned preceptor's patients. Student responsibilities include patient workups, histories, physical examinations, and review of laboratory and diagnostic data. The student will be expected to evaluate patients, develop a treatment plans, and precept the patient with the attending physician. The student will be directly supervised and guided through this process by members of the clinical faculty and approved preceptors.

Students should expect to participate on night call activities to enhance their learning opportunities.

Continuing medical education and life-long learning are emphasized by requiring students to read daily and report on their reading.

DEPARTMENT OF MEDICINE

MED3-3001/F MEDICINE CLERKSHIP-CHATT

Clerkship Director: Gary Malakoff, MD

Location: Erlanger

Size: 6

This is a face to face clinical rotation offered in the fall and spring and receiving 14 credit hours.

The objective for the M-3 Internal Medicine Medical student education is for students to acquire a fundamental knowledge of internal medicine while developing skills of physical examination, history taking, case presentation and various procedures: starting IV's, venipuncture, paracentesis, and lumbar punctures. Students will be expected to demonstrate an adequate basic fund of knowledge, interest in learning, technical skills, ability to organize data and formulate hypothesis, ability to relate to patients, staff, and other physicians. The goals, objectives and projects for the Internal Medicine Clerkship are the same at all UT sites (Memphis, Knoxville, and Chattanooga).

Students are assigned to a Service Medicine Team, typically consisting of an attending physician, one resident, and two interns. Rounds occur daily and students are expected to be active participants. Each Service Medicine Team is "on daytime call" every fourth day. The Internal Medicine Residency utilizes a special "Night Float" Team of residents and interns to handle night time call from Sunday through Thursday. This allows the medical student to leave the hospital around 5 PM on most days and by 8 PM on the day the Team is on "call." Students usually have one weekend day off duty.

Students also attend all Department of Medicine Conferences (daily Morning Report, Noon Conferences and Grand Rounds once each week) as well as specific medical student lectures (two to three times per week) on a wide variety of internal medicine topics. Three days during the Clerkship are designated for skills training to allow students to become proficient in starting IV's, drawing blood and blood gases.

The UT College of Medicine Chattanooga, through the generosity of the hospital, provides living arrangements (modestly furnished apartments) and meals for all students who participate in rotations in Chattanooga – all at no cost to the student.

The Department of Internal Medicine in Chattanooga sponsors one of eight residency programs based at Erlanger. We offer ten positions at each of three levels of training. Our Internal Medicine Residency is specifically designed to educate good general internists whose goal is to practice general internal medicine or pursue subspecialty training. Clinical training occurs at Erlanger Medical Center, a modern health care facility offering residents experience in primary, secondary, and tertiary medical care under the supervision of outstanding faculty. Our residency is dedicated to providing a superior learning environment for training residents to practice the highest quality of internal medicine. Our Program is fully accredited and is designed to provide optimum, first-hand experience and didactic education in the broad field of internal medicine. More than 6,000 patients are admitted annually by general internal medicine faculty, related subspecialty faculty, residents, and students.

MED3-3002/F REQUIRED MEDICINE SENIOR CLERKSHIP (INTERNAL MEDICINE)-CHATT

Course Coordinator: Dr. Gary Malakoff
Location: Erlanger
Minimum: 2
Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Must confirm space available with course coordinator at joyce.poke@erlanger.org or (423-778-2998).

Students taking this inpatient rotation function as a junior intern. Students must assume responsibility for patient care similar to that of an intern but under the more close and direct supervision of an assigned physician and resident team leader. Emphasis will be placed on improving diagnostic and therapeutic planning and extending patient management skills acquired during the junior Medicine Clerkship. The junior intern should acquire basic problem-solving skills covering a broad spectrum of medical problems encountered in the practice of internal medicine.

MED3-3003/F REQUIRED SENIOR AMBULATORY CLERKSHIP IN MEDICINE-CHATT

Course Coordinator: Gary Malakoff, MD
Location: Erlanger
Size: 3

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will see patients in the General Internal Medicine Clinic, the offices of private practitioners, and subspecialty clinics, such as Endocrinology, GI, Cardiology, Pulmonary Medicine, Rheumatology, and AIDS.

MED3-3010/F JI ANY - SENIOR CLERKSHIP IN MEDICINE-CHATT

Course Coordinator: Gary Malakoff, MD
Location: Erlanger
Size: 2

Note: Must confirm space available with course coordinator

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This course would be an elective rotation as a junior intern in Internal Medicine after the student has already completed the Required Senior Clerkship in Internal Medicine. This rotation places the student in a more direct role in patient care in advanced medicine, similar the role of an intern, but under the close and direct supervision of an assigned resident and staff physician. The student is expected to acquire basic problem-solving skills covering a broad spectrum of medical problems encountered in the practice of internal medicine.

MED3-3031/F JI ANY – CRITICAL CARE MEDICINE-CHATT

Faculty: John Gunter, MD, John Boldt, MD
Maximum number of students per rotation: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Educational Purpose:

The critical care rotation is a one-month elective rotation for fourth year medical students in which the principles of critical care medicine and evaluation and treatment of critically ill patients are emphasized. Critical illness does not respect socioeconomic boundaries, however, many critically ill patients do present with additional complications of substance abuse or lack of timely medical care. Ethical issues concerning the intensity of care are often encountered. The appropriate environmental precautions and hazards are frequently discussed when isolation of patients is required. Aspects of care unique to the intensive care unit are also emphasized.

Teaching Methods:

The critical care team generally consists of one or two upper level residents, one or two interns, and the medical students allowing the team to structure different tasks according to individual team member skills. The upper level residents teach the interns and students; the attending intensivist teaches the entire team during didactic sessions as well as during daily rounds. Reading assignments are distributed based on rotation goals as well as particular disease entities encountered. During these rounds and conferences, the pathogenesis of conditions is reviewed and the particular skills needed for evaluation and management of critically ill patients are reviewed. The importance of including family members in these discussions and compassionate care for individuals is emphasized.

Disease Mix:

All aspects of critical illness may be evaluated and managed by the team on this rotation. Particular emphases include:

- A. Consultation and management of critically ill patients.
- B. Ventilator and airway management.
- C. Management of acute respiratory failure, including adult respiratory distress syndrome.
- D. Systemic inflammatory response states, including sepsis.
- E. Nutrition in the critically ill patient.
- F. Interventions to decrease the risk of secondary complications in the critically ill patient.

Patient Characteristics and Types of Clinical Encounters:

In this rotation, students evaluate patients for whom consultation is requested in intensive care units. These patients generally manifest high illness acuity in a wide range of pulmonary, cardiac, neurologic and infectious problems. Resident supervision is constantly present in the hospital for students; attending supervision likewise is constantly present within the hospital and through daily team rounds.

Procedures and Services:

The critical care team often performs procedures in the intensive care unit which include central line placement, thoracentesis, chest tube placement, bronchoscopy, and tracheotomy management. Students will be invited to observe and possibly assist in these procedures.

Reading List:

1. MKSAP 14. Pulmonary and Critical Care.
2. Snow V, et al. Evidence base for management of acute exacerbations of COPD. *Ann Intern Med* 2001;134:595-9.
3. Rivers E, et al. Early goal-directed therapy in the treatment of severe sepsis and septic shock. *NEJM* 2001;345:1368-77.

4. Lange RA, Hillis LD. Cardiovascular complications of cocaine use. *NEJM* 2001;345:351-8.
5. Jacobi J, et al. Clinical practice guidelines for the sustained use of sedatives and analgesics in the critically ill adult. *Crit Care Med* 2002;30:119-41.
6. Recommended Text: The ICU Book by Paul Marino
7. Current literature as assigned by the faculty supervisor

Pathological Material and Educational Resources:

Students are encouraged to review the results of diagnostic biopsies and therapeutic procedures. If an autopsy is performed on a patient for whom they have been providing consultation, they are encouraged to view the autopsy.

Method of Evaluation of Student Performance:

- A. Attending and resident evaluation of clinical performance at the end of the month.
- B. Required completion of reading assignments.
- C. Completion of assigned learning topics by attending.

MED3-4060/F JUNIOR FELLOWSHIP IN CARDIOLOGY-CHATT

Course Coordinator: Dr. Charles Campbell

Location: Erlanger

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Offered in Blocks 9, 10, 11, 1, 2, 3 and 4

This junior internship rotation in cardiovascular disease is based in a busy community-referral hospital, Erlanger Medical Center. The student is expected to gain in-depth knowledge of cardiovascular disease and will have specified experience in utilizing tools available in modern diagnosis including: electrophysiology, non-invasive techniques, and cardiac catheterization. Daily EKG interpretation sessions, teaching rounds and weekly small cardiac clinic will be held for the student by the Cardiology attending and residents.

MED3-4070/F Endocrinology and Diabetes-CHATT

Course Director: Asma Khan, MD

Location: Academic Endocrinology and Erlanger Health System

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Must confirm space available with course coordinator at joyce.poke@erlangers.org or (423-778-2998).

This elective is designed to provide an opportunity for students to observe both inpatient and outpatient evaluation and management of patients with a wide variety of endocrine disorders, including thyroid and parathyroid disease, osteoporosis, multiple endocrine neoplasia, pituitary disorders, etc. Students will participate in patient care, evaluation, and management, and requested inpatient consults. Students will work under the direct supervision of a clinical endocrinologist. Students can observe patients undergoing thyroid ultrasounds and U/S-guided fine needle biopsies of thyroid nodules. Students will be able to gain experience in evaluation and intensive outpatient management of diabetic patients using insulin pumps, continuous glucose sensing, and multiple daily injection regimens.

MED3-4080/F Gastroenterology-CHAT

Course Director: Louis Lambiase, MD

Location: Erlanger Health

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Must confirm space available with course coordinator at joyce.poke@erlanger.org or (423-778-2998).

This elective is designed to acquaint students with clinical problems in Gastroenterology. Students will participate in patient care, evaluation, management, and requested in- and outpatient consults and endoscopic procedures and biopsies. Basic concepts in pathophysiology and therapy will be stressed. Students will be expected to actively participate in all GI rounds and patient discussions. Expect extensive exposure to acute and chronic GI disorders including the full spectrum of liver diseases.

MED3-4110/F JUNIOR FELLOWSHIP IN INFECTIOUS DISEASES-CHAT

Course Coordinator: Jay Sizemore, MD

Location: Erlanger

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective is designed to acquaint students with clinical infectious disease problems found through the various medicinal disciplines. The student will participate in patient rounds and requested consults. Basic clinical microbiology, including interpretation of gram-stained clinical specimens and colony morphology of organisms will be integrated with Dx and Rx. A selected bibliography will be provided and periodic discussion held pertaining to basic infectious diseases. The students will be expected to actively participate in these discussions, conferences, and the care of infectious disease inpatients.

MED3-4120/F JUNIOR FELLOWSHIP IN NEPHROLOGY-CHAT

Course Coordinator: Christopher Poole, MD

Location: Erlanger

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will participate in the work-up and management of patients with renal disease as well as those with fluid and electrolyte disorders. The Erlanger Renal Service is particularly germane to the education of senior medical students since it provides exposure to the complete spectrum of renal diseases. Prominent inclusions are acute glomerulonephritis, toxemia related to pregnancy, electrolyte disorders, and chronic renal failure from a wide variety of etiologies. Pathophysiology and its relationship to clinical medicine will be stressed throughout this elective. The student will attend daily Internal Medicine Residency conferences including a weekly renal conference. The student will be expected to participate actively in these renal conferences. The student will work directly under the supervision of an intern, a senior medical resident and the Director of Nephrology.

MED3-4131/F PULMONARY MEDICINE-CHATT

Faculty: Suresh Enjeti, MD

Maximum number of students per rotation: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Educational Purpose:

The pulmonary rotation is a one-month elective rotation for fourth year medical students in which the principles of pulmonary medicine are emphasized. Socioeconomic issues such as complications of substance abuse or lack of timely medical care will be addressed. Ethical issues concerning the intensity of care are often encountered. The appropriate environmental precautions and hazards are frequently discussed when isolation of patients is required.

Teaching Methods:

The pulmonary team generally consists of one upper level resident, one or two interns, and the medical student allowing the team to structure different tasks according to individual team member skills. The upper level resident teaches the interns and student; the attending teaches the entire team during didactic sessions as well as during daily rounds. Reading assignments are distributed based on rotation goals as well as particular disease entities encountered.

Disease Mix:

All aspects of pulmonary diseases may be evaluated and managed by the team on this rotation. Particular emphasis includes consultation and management of patients with acute and/or chronic pulmonary conditions. These include but are not limited to chronic obstructive pulmonary disease, pulmonary embolism, pulmonary fibrosis, obstructive sleep apnea, pneumonia, and asthma.

Patient Characteristics and Types of Clinical Encounters:

In this rotation, students evaluate patients for whom consultation is requested on the ward. There is minimal intensive care unit exposure on this rotation. When patients decompensate on the floor, the pulmonary team would be responsible for timely and efficient hand over of the patient to the critical care team. Also, pulmonary clinic occurs once a month and will give the student exposure to pulmonary issues in the outpatient setting. Students are required to attend with their residents.

Procedures and Services:

The pulmonary team often performs procedures which include central line placement, thoracentesis, chest tube placement, bronchoscopy, and tracheotomy management. Students will be invited to observe and possibly assist in these procedures.

Reading List:

1. MKSAP 14. Pulmonary and Critical Care.
2. Snow V, et al. Evidence base for management of acute exacerbations of COPD. *Ann Intern Med* 2001;134:595-9.
3. Current literature as assigned by the faculty supervisor

Pathological Material and Educational Resources:

Students are encouraged to review the results of diagnostic biopsies and therapeutic procedures. If an autopsy is performed on a patient for whom they have been providing consultation, they are encouraged to view the autopsy.

Method of Evaluation of Student Performance:

- A. Attending and resident evaluations of your clinical performance at the end of the month.
- B. Required completion of reading assignments.
- C. Completion of assigned learning topics by attending.

MED3-4140/F RHEUMATOLOGY-CHATT

Course Coordinator: Michael Britt, MD

Location: Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Must confirm space available with course coordinator

This elective is designed to acquaint students with clinical problems in Rheumatology. They will participate in patient care, evaluation, management, and patient consults. Basic concepts in pathophysiology, systematic evaluation, and therapy will also be stressed. Students will be expected to actively participate in all Rheumatology rounds and patient discussions.

NEUROLOGY CLERKSHIP

(See Other Rotations at the end of this section)

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

OBG3-3001/F OBSTETRICS AND GYNECOLOGY CLERKSHIP-CHATT

Clerkship Director: Jeanie Dassow, MD (Jeanie.dassow@erlanger.org)

Contact: Marcella Westmoreland (Marcella.Westmoreland@erlanger.org)
(423-778-7515)

Location: Erlanger

Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 14 credit hours

The M-3 OB/GYN Clerkship in Chattanooga is organized in an eight-week block:

- Two weeks on the obstetrical service
- Two weeks on the gynecologic service
- One week on the gynecologic oncology service
- One week on Night Float
- Two weeks of OB/GYN clinics

From 2 to 6 students can be scheduled for the clerkship per eight-week block. The purpose of this core clerkship experience is to learn and understand the basic principles and practice of obstetrics and gynecology and develop a general understanding of women's health.

Clerks will have two weekend call responsibilities during the rotation. Students are expected to attend rounds, conferences and lectures associated with the respective services. The rotation involves both inpatient and outpatient care of obstetrical and gynecologic patients, including assisting and/or performing related procedures such as deliveries, ultrasounds and office procedures as well as major gynecology cases.

During the clinic weeks, students work in both private and resident offices. Reproductive-endocrinology and Maternal-Fetal experiences are also part of these weeks. Each student will spend a half-day with a radiologist reading mammograms and also join a community worker for a home visit to a patient participating in support programs.

Assignment of grades is based on clinical performance (determined by evaluations from residents and staff) and scores on the written examination administered at the end of the rotation. Each student will also give a short presentation to peers and the clerkship director. Weekly quizzes help students to pace required reading.

The Department of Obstetrics and Gynecology sponsors a comprehensive four-year residency program for 16 residents (4 residents at each level.) For other information about our clerkships (housing, meals, etc.) or residency programs, go to www.utcomchatt.org. 

OBG3-3050F JI ANY - SENIOR CLERKSHIP IN WOMEN'S HEALTH

Course Coordinator: Jeanie Dassow, MD

Location: Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Must contact and receive approval from Dr. Jeanie Dassow Jeanie.Dassow@erlanger.org before scheduling with the Office of Medical Education in Memphis.

This course will expand upon the students' third year OB/GYN Clerkship and give the student increasing responsibility. Basic OB and GYN skills, both inpatient and outpatient, will be strengthened. Prior to the beginning of the month, the clerk will work with Dr. Dassow to tailor the 4-week experience to achieve their particular learning goals. Experiences in reproductive endocrinology and infertility, urodynamics, maternal-fetal medicine, GYN-ONC and private general OB-GYN practice are all possible. Students may spend time in the OR and on L&D as well as in the office. Rural outreach clinic is also an option. Participation in the Night Float team, opportunities for skills lab and mammography are also available. Each Friday morning the student will participate in didactics. This experience is ideal for students considering a residency in OB/GYN as well as those interested in learning more about women's health.

DEPARTMENT OF ORTHOPAEDIC SURGERY

ORS3-4010/F ORTHOPAEDIC SURGERY-CHATT

Course Coordinator: W. Michael Tew, MD

Location: Erlanger

Size: 3

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The Orthopaedic Surgery elective provides clinical experience on an active teaching service. The student will work with and assist a senior resident under the supervision of attending staff. The student will learn how to conduct a history and physical examination of the musculoskeletal system, how to develop the diagnosis and treatment plan for assigned patients, and basic orthopaedic radiology. The student will learn basic principles of fracture care. The student will have patient contact in Emergency Room Clinic, Ward, and Surgery. Regular teaching rounds and conferences will be required.

UT Memphis students may schedule this elective without any restrictions. Medical students from other U. S. medical schools requesting this elective must also meet the criteria below in order to be approved for the rotation. Two separate applications must be completed by other U.S. senior medical students to request consideration for the elective. Contact the Orthopaedic Surgery Department (Ms. Donna Gibson, Residency Coordinator, at donna.gibson@erlanger.org) to request medical student elective application forms.

Additional Criteria for Orthopaedic Surgery Elective and Residency:

Applicants for both the Orthopaedic Surgery Residency and the Orthopaedic Surgery Medical Student Elective will be considered only if they meet eligibility requirements for residency established by the ACGME and our institution, the University of Tennessee College of Medicine Chattanooga. In addition, applicants must meet the following:

Step I USMLE - score of at least 230 on first attempt

Step II USMLE - score of at least 230 on first attempt*

(*may adversely affect applicant if Step II scores are not available)

Member of current year's graduating class

Ranked near or within the top 25% their graduating class

DEPARTMENT OF PATHOLOGY

PAT3-4010/F PATHOLOGY-CHAT

Course Coordinator: Richard Hessler, MD

Location: Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective is quite flexible and will be tailored to the student's needs and desires. In its broadest sense, it will be a survey of techniques in anatomic and clinical pathology with heavy emphasis on clinical-pathologic correlation. If desired, the time may be structured to emphasize certain aspects of the laboratory such as hematology or microbiology. Emphasis will also be placed on how the clinician may maximally utilize pathology services in a hospital setting.

DEPARTMENT OF PEDIATRICS

PED3-3001 /F PEDIATRICS CLERKSHIP-CHATT

Clerkship Director: Cathy A. Stevens, MD

Contact: Patty Wolfe, Pediatric Residency Coordinator

Location: T. C. Thompson Children's Hospital at Erlanger

Size: 8

This is a face to face clinical rotation offered in the fall and spring and receiving 14 credit hours.

Students spend 1 month on the inpatient service and 1 month on the outpatient rotation. Medical students are active members of the medical team taking care of patients. They will be expected to learn about normal growth and development, how to evaluate children of different ages, diagnosis and treatment of common pediatric conditions and have the opportunity to be exposed to many unusual disorders. Because of the relatively small number of students, there is a greater amount of individualized attention and responsibility that is given to each student. There is direct faculty supervision wherever students are assigned on inpatient or outpatient services.

PED3-3010 /F JI ANY - SR. CLERKSHIP IN PEDIATRICS-CHATT

Course Coordinator: Cathy A. Stevens, MD

Location: T.C. Thompson Children's Hospital at Erlanger

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will have primary responsibility for the patients assigned to him that will include all documentation, procedures and parental contact. The senior clerk will be responsible for liaison with other medical and ancillary services, completion of the chart and presentation of the patient in appropriate form. He will also be responsible for the preparation and presentation of therapeutic short topics.

PED3-4009 /F CLINICAL GENETICS-CHATT

Course Coordinator: Cathy A. Stevens, MD

Location: T.C. Thompson Children's Hospital at Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Must contact and receive approval from the Course Coordinator before scheduling with the Office of Medical Education in Memphis. Call the Pediatric Chief Resident at (423) 778-8018 or email her to request approval at pedchief@erlanger.org.

Student will learn to obtain pertinent medical and family history, how to perform a dysmorphology examination, and draw a detailed pedigree. The student will become familiar with a variety of genetic disorders as well as the genetic implications of a wide range of birth defects. Some prenatal counseling for genetic disorders is also done. The

student will learn how to approach examination of fetuses with birth defects and learn to calculate genetic risks of recurrence of various disorders. The student will have some responsibility for 20-25 patients per week by performing detailed medical and family histories, physical exams, drawing the pedigree. Every patient is seen with the attending physician. Weekly conferences on a variety of pediatric topics are available. No weekend duty is required.

PED3-4010/F Pediatric Neurology Elective-CHAT

Course Coordinator: Paul Knowles, MD

Location: TC Thompson Children's Hospital at Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

NOTE: Note: Must contact and receive approval from the Course Coordinator before scheduling with the Office of Medical Education in Memphis. Call the Pediatric Chief Resident at (423) 778-8018 or email her to request approval at pedchief@erlangers.org.

The objectives for this course are to learn the basic neuro exam of children and infants and the assessment of children with neurological conditions. This includes seizures, headaches, developmental delays and autism. Students will get exposure to the interpretation of EEG's, MRI's and CT scans. They will have some responsibility for 20 to 30 inpatients and outpatients per week. The student will perform the history and physical exam on both outpatients and inpatients. They will follow patients daily; write notes (under attending supervision). All patients seen by the student will be reviewed by faculty member (occasionally by resident). Students will attend morning report Monday through Friday and Grand Rounds on Wednesday. Attendance at other conferences (general pediatrics) may be suggested. No overnight call required.

PED3-4030/F PEDIATRIC EMERGENCY MEDICINE-CHAT

Course Coordinator: Darwin Koeller, MD

Location: T.C. Thompson Children's Hospital Emergency Department

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will learn to evaluate and manage pediatric emergencies. The student will be exposed to a large number of different types of pediatric patients and familiar with their management. The student will observe and learn to stabilize critically ill patients in order to prevent further deterioration or disability. The student will see approximately 100 (out patients) per week. Medical students will evaluate non-critically ill patients first and then, after the attending or resident has evaluated the patient, formulate a treatment plan with the attending. The medical student will observe and assist the attending in evaluation of critically ill patients. Students will also learn laceration repair and other P.E.M. procedures. Attending MD will be present at all times; often times, there will be a 2nd or 3rd year resident present also. The student will attend 8:00 am morning report (schedule permitting), Monday through Friday. No night call; every other weekend or split weekends; shift time is negotiable but a minimum of 48 hours per week clinical time is expected. A procedure log sheet will be posted in the CHED Physician office and must be maintained by the student.

PED3-4031/F PICU-CHATT

Course Coordinator: Patrick Keegan, MD

Location: T.C. Thompson Children's Hospital at Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Must contact and receive approval from the Course Coordinator before scheduling with the Office of Medical Education in Memphis. Call the Pediatric Chief Resident at (423) 778-8018 or email her to request approval at pedchief@erlanger.org.

This elective will provide students a basic understanding of the diagnosis and treatment of critically ill children. An emphasis will be placed on pathophysiology and daily management of critically ill patients. Students will achieve a basic understanding of ABG interpretation and ventilator management. The student will have the same call requirements as a PICU resident (~6 nights/per month.) There will be required reading and an end of the month examination.

PED3-4035/F NEONATOLOGY-CHATT

Course Coordinator: Nick Sherrow, MD

Location: T.C. Thompson Children's Hospital at Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective is structured to provide the interested student an opportunity to develop skills in physical examination on neonates, in the recognition of neonatal illness, and in proper therapeutic intervention. Programmed as substitute intern, the elective student will work as a member of the house staff team and will have night call rotations with the physician staff. An attending neonatologist will make daily teaching rounds with students and residents who will also provide supervision during the rotation. Patient care responsibilities will be in the normal newborn nurseries in Baroness Erlanger Hospital and in the Neonatal Intensive Care Unit at T. C. Thompson Children's Hospital.

PED3-4060/F PEDIATRIC CARDIOLOGY-CHATT

Course Coordinator: Gerald Johnson, MD

Location: T.C. Thompson Children's Hospital

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Must contact and receive approval from the Course Coordinator before scheduling with the Office of Medical Education in Memphis. Call the Pediatric Chief Resident at (423) 778-8018 or email her to request approval at pedchief@erlanger.org.

This elective is designed to give the student who plans to practice family medicine or pediatrics the skills necessary for diagnosis and management of a wide variety of

congenital and acquired cardiovascular problems in children from newborn age through adolescence. Emphasis will be placed on proper clinical skills, and on the utilization and interpretation of appropriate diagnostic testing. The student will learn to manage most outpatient cardiac problems and will acquire skills necessary in making judgments concerning which patients should be referred to a specialized cardiovascular center. The student will participate in patient evaluation, and in the interpretation of diagnostic data, especially examination findings, EKG's, and in the interpretation of reported echocardiographic and cardiac catheterization data.

PED3-4070/F PEDIATRIC ENDOCRINOLOGY-CHAT

Course Coordinator: Marielisa Rincon, MD

Location: T.C. Thompson Children's Hospital at Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Must contact and receive approval from the Course Coordinator before scheduling with the Office of Medical Education in Memphis. Call the Pediatric Chief Resident at (423) 778-8018 or email her to request approval at pedchief@erlangers.org.

The student will participate in all phases of the care of children and adolescents with suspected endocrine disorders, including growth failure, type I diabetes mellitus, disorders of puberty, abnormal genital development, and thyroid dysfunction. The elective stresses skills in taking histories, planning diagnostic evaluations, patient and family education, and motivational counseling. Daily contact and supervision with attending physician and house staff. Morning report and noon conference daily, plus preclinic and post-clinic endocrine conferences. On call for all endocrine emergencies.

PED3-4080/F PEDIATRIC GASTROENTEROLOGY AND NUTRITION-CHAT

Course Coordinator: Doug Laman, MD

Location: T.C. Thompson Children's Hospital at Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Must contact and receive approval from the Course Coordinator before scheduling with the Office of Medical Education in Memphis. Call the Pediatric Chief Resident at (423) 778-8018 or email her to request approval at pedchief@erlangers.org.

The objective of this course is to become acquainted with the common diagnoses and clinical management of pediatric gastrointestinal disorders. The student will have some responsibility for 6 patients per week. The level of responsibility students will have for patient care 1) Outpatient and Inpatient consultations and follow-up; 2) Observation of procedures with active participation will be encouraged with a review of pathologic findings. There will be close faculty supervision--and an expected amount of reading is to be completed. The student will attend daily and morning report. No night call or weekend work expected.

PED3-4100/F PEDIATRIC HEMATOLOGY/ONCOLOGY-CHATT

Course Coordinator: Jennifer Keates-Baleiro, M.D.

Location: T. C. Thompson Children's Hospital

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Must contact and receive approval from the Course Coordinator before scheduling with the Office of Medical Education in Memphis. Call the Pediatric Chief Resident at (423) 778-8018 or email her to request approval at pedchief@erlangers.org.

T.C Thompson Children's Hospital at Erlanger is a full member of the Children's Oncology Group, seeing approximately 50 new oncology patients annually, and is also the Southeast Tennessee regional comprehensive center for hemoglobinopathies and coagulation disorders. This elective will provide the senior medical student with an immersion experience in outpatient pediatric hematology and oncology. Students will learn appropriate diagnostic workup for single and multiple-line cytopenias, lymphadenopathy, coagulation disorders, and childhood malignancies. Students will have the opportunity to become comfortable with lumbar puncture and intrathecal chemotherapy administration, central venous catheter access and care, and bone marrow aspiration and biopsy. One-on-one training is given in the interpretation of common findings on peripheral blood smears during patient encounters. Students will follow a panel of outpatient hematology and oncology patients on a continuity basis for the 4 weeks of their elective, covering a broad variety of common childhood blood disorders and malignancies.

PED3-4130/F PEDIATRIC PULMONOLOGY-CHATT

Course Coordinator: Joel Ledbetter, MD

Location: T. C. Thompson Children's Hospital at Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: Must contact and receive approval from the Course Coordinator before scheduling with the Office of Medical Education in Memphis. Call the Pediatric Chief Resident at (423) 778-8018 or email her to request approval at pedchief@erlangers.org.

This elective provides students an opportunity to participate in the evaluation and treatment of patients with chronic and acute respiratory problems and cystic fibrosis. The student will become familiar with pulmonary function testing and other aspects of respiratory care.

DEPARTMENT OF PLASTIC SURGERY

SUR3-4020/F PLASTIC SURGERY-CHATT

Course Coordinator: Larry A. Sargent, MD

Location: Erlanger

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The purpose of this course is to introduce the subspecialty of Plastic Surgery to the student at a first-hand level. The student will become intimately involved in a large

volume practice overlooking a Plastic Surgery training program. Specific subjects covered are: Wound Healing, Soft Tissue Injuries, Tumors of the Skin, Tumors of the Head and Neck, Burn Therapy, Diagnosis and Management of Facial Fractures, Cleft Lip and Palate, Craniofacial Deformities, The Hand, and Aesthetic and Reconstructive Surgery.

**PSYCHIATRY CLERKSHIP and PSYCHIATRY ELECTIVES
(See Other Rotations at the end of this section)**

DEPARTMENT OF RADIOLOGY

RAD3-4010/F DIAGNOSTIC RADIOLOGY-CHATT

Course Director: R. Kent Hutson, MD

Location: Erlanger Baroness Campus

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student electing diagnostic radiology at Erlanger Baroness Campus in Chattanooga will be exposed to daily teaching and work conferences and will observe the staff during routine radiographic work, advanced cross-sectional and nuclear imaging, fluoroscopic GI-GU procedures, and special procedures. There are extensive opportunities for independent teaching-file work. The elective's main goals: (1) to familiarize the student with the role of the diagnostic x-ray department in patient care, (2) to familiarize the student with the critical role radiologist-clinician communication plays in patient management, (3) to educate the student regarding the imaging test-of-choice for most clinical problems, (4) to educate the student regarding radiological radiation, cost, and safety issues, (5) to allow the student to understand what their patient goes through when they order a radiological procedure or test.

DEPARTMENT OF SURGERY

SUR3-3001/F SURGERY CLERKSHIP-CHATT

Clerkship Director: Michael Greer, MD

Location: Erlanger

Size: 8

This is a face to face clinical rotation offered in the fall and spring and receiving 14 credit hours.

The Chattanooga M3 Surgery Clerkship is organized into four components. Students will spend two weeks on each of the following: General Surgery, Vascular Surgery, Acute Care Service, and Trauma/Critical Care Service. Orientation to the clerkship is given the first day of the rotation. This includes a formal introduction by the Clerkship Director, the Surgery department Coordinator, the senior resident clerkship coordinator and the Skills Lab Director. Each rotation has unique experiences to offer. Each has full-time faculty, chief resident, senior resident and junior residents as well as students assigned. Call schedules and duties may vary according to the rotation but will be clearly delineated at the start of each new rotation.

SUR3-3002/F REQUIRED SURGERY SPECIALTIES-CHATT

Course Coordinator: Michael Greer, MD

Location: Erlanger

Size: 4 (minimum 2)

Note: Offered in blocks 4, 5 and 10

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This four-week clerkship exposes the student to the Surgery Specialties of Orthopaedics, Otolaryngology, Pediatric Surgery, and Urological Surgery, with one week spent in each discipline. The course will be graded as Pass/Fail and is offered in Blocks 4, 5 and 10.

SUR3-3010/F JI ANY - SENIOR CLERKSHIP IN SURGERY-CHATT

Course Coordinators: R. Phillip Burns, MD (Chair), and Michael Greer, MD (Clerkship Director)

Location: Erlanger

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

The student will be assigned advanced clinical responsibility, under the direct supervision of the faculty, in the surgical management of patients including pre-operative work-up, operative management, and post-operative care. The student will take regular call rotation with residents; will assist in surgical operations, conferences, weekly clinics, and monthly seminars.

SUR3-3030/F JI ANY - SURGICAL CRITICAL CARE-CHATT

Course Coordinator: Robert Maxwell, MD

Location: Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective is to provide an environment with strict faculty supervision dedicated to the education of medical students in the medical and surgical management of critically ill

patients: to enhance the development of technical skills and knowledge for the evaluation and treatment of the critically ill patient: to teach medical students to function as an effective member of a critical care management team: to encourage interest in critical care research and promote education of critical care concepts and principals as applied in this environment. The student will have some responsibility for 15-20 patients per week. The ICU medical student will be responsible for the daily presentation of their patients to the rounding faculty, resident, and multidisciplinary treatment team. The medical students will apprise the treatment team of the patient's status to include but not limited to hemodynamics, pulmonary, neurological, and infectious conditions. The medical students will identify clinical problems, and present to the team his/her recommendations for intervention. He/she will be responsible for the daily documentation of patient care and the performance of invasive procedures under the supervision of faculty or senior level residents based upon level of competency as assessed by faculty. The medical student will learn the principles of coordinating patient care as well as cost containment in the utilization of ICU resources. All orders written in the ICU by the medical students will be reviewed and co-signed by senior level residents or faculty prior to initiation. Continuous supervision of this rotation will be provided by board certified/eligible surgical intensivist. Daily care of the patients and direction of the medical students and residents will be provided by these same faculty members. The medical students will function in the ICU under the continuous supervision of the surgical critical care ICU resident. This rotation should be considered at the level of that of a sub-internship rotation. Medical students on this rotation will attend the surgical basic science lectures, grand rounds lectures, and surgical M&M conferences. In addition to these conferences the medical student will attend the surgical critical care clinical sciences lecture as well as participate in the critical care morbidity and mortality conference. The medical student may be expected to present morbidities and mortalities that are pertinent to patients that he/she is involved with. The medical student will be on a 24 hour on and a 24 hour off rotating call schedule with the surgical critical care resident that he/she is assigned to on a buddy type system. It is expected that following call, the medical student will be relieved of all clinical responsibilities by 9:00 a.m. and will not assume any further clinical responsibilities until 7:00 a.m. the following day. This should allow more than adequate time for rest, relaxation, and continuing reading and education on an independent basis.

SUR3-4010/F GENERAL SURGERY-CHATT

Course Coordinators: R. Phillip Burns, MD (Chair) and Michael Greer, MD (Clerkship Director)

Location: Erlanger

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This senior elective includes daily rounds, rounds with teaching staff, grand rounds, out-patient clinic assignments three days per week, conferences on various subjects three days per week, and emergency room assignments. Assignments on the different services include both service and indigent patients. Students have primary responsibilities for diagnostic workup and assistance on surgical procedures of patients assigned to their respective service. I.V. and lab teams are provided by the hospital; therefore, limited paramedical services are supplied by students. Opportunity for technical skills development is afforded through an organized course in the surgical skills laboratory.

SUR3-4060/F PERIPHERAL VASCULAR SURGERY-CHATT

Course Coordinator: Michael Greer, MD

Location: Erlanger

Size: 2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Program participants are assigned to staff physicians. Patients with vascular (arterial and venous) diseases on the surgery service at Erlanger Hospital as well as private patients serve as case material. The spectrum of diagnosis and treatment of vascular disease is covered. Participants are expected to present cases at weekly vascular conferences and to attend the vascular clinic.

SUR3-4061/F THORACIC SURGERY-CHATT

Course Coordinator: J. Robert Headrick, MD

Location: Erlanger

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

This elective includes participation in the diagnosis, evaluation, and treatment of all disease in the spectrum of thoracic surgery. Students are assigned primary responsibilities with patients on the surgery service at Erlanger Hospital as well as selected private patients under the direct supervision of the listed staff.

OTHER ROTATIONS

IDE3-4040/F CAPSTONE COURSE -CHATTANOOGA

Course Directors: Dr. Mukta Panda and Dr. Robert Fore
Course Coordinator: Liz Jones (Liz.Jone@erlanger.org 423-778-6956)
Maximum-15
Minimum-5
Grading-P/F

This is a face-to-face clinical rotation offered in Block 2 and awards 7 credit hours.

The Course includes:

Back to Basics.edu- more opportunities to review basic science concepts in the framework of clinical cases; Business of Medicine- TBL's using the HealthCare Handbook written by medical students Askin and Moore. Faculty will discuss topics such as health care reform, insurance, and regulatory agencies; EBM-Improve your skills in searching the literature to answer clinical questions; Intern school-Focus on skills to prepare students for life as a house officer, including radiology review, ECG review, what to do on call, line placement and intubation skills, and other skills important for internship and residency; legal issues in medicine; Teaching-Academy- learn teaching and learning techniques for residency and beyond

NEU3-3001/F NEUROLOGY CLERKSHIP-CHATT

Clerkship Directors: Abdelazim Sirelkhatim, MD (Neurology)
Location: Erlanger Health System
Size: 3

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Blocks offered: 2015: 9, 11 and 2016: 1, 3

This is a four-week (one block) required clerkship. Students will become familiar with standard diagnostic techniques, become proficient at performing a neurologic examination, become familiar with best practice guidelines, and become aware of administrative requirements of an inpatient hospital environment, and work collegially with other health care professionals. The clerkship will provide the student with a general framework in which he or she will be able to recognize and treat neurological emergencies and common neurologic disorders encountered in a primary care practice. Specific goals include:

- Acquire excellent history-taking skills
- Develop the ability to perform a proper neurological examination
- Review neuroanatomic principle of nervous system lesion localization
- Discuss a logical approach to diagnostic testing
- Understand the pathophysiology of **common** neurologic disorders (with extensive exposure to stroke syndromes)
- Develop an approach to both specific and symptomatic treatment using Evidence Based Medicine (EBM) guidelines

Attendance at lectures and teaching conferences is required. Student's final grade is based 50% on an internally written examination and 50% on the attending neurologist's

evaluation of their clinical performance. Students will have required didactic sessions to include teleconferencing such sessions from Memphis. Use of shared resources will be key. An internal video series will be included in the curriculum. Daily mini-presentations will also be required.

Students will have significant exposure to patients both in the hospital and in the outpatient clinic. A good portion of patient care will involve neurology consultations.

Ultimate responsibility for patient care rests with the attending neurologist who leads the treatment team. Medical students will have limited responsibility but will be allowed to conduct supervised interviewed with patients, and in accordance with hospital bylaws, all responsibilities for inpatient chart documentation rests with the treatment team. Students will have ample opportunity to present written reports and sample chart notes as part of their learning experience. Students will assist with neurology procedures should the need arise (LP, carotid dopplers, EMG/NCT)

Neurology faculty will supervise students directly.

Students will be expected to attend the regularly scheduled rounds, clinics, video lecture series and participate in the Neurology Clerkship teleconferences run by the Neurology Clerkship in Memphis. They can expect at least two or three formal didactic lectures each week. They may attend weekly Grand Rounds at Erlanger hospital. They should attend any ad hoc conferences. Students will be expected to participate in "Word of the Day" assignments (students will be assigned a one-word neurology topic and present a brief talk about the topic).

There is no student overnight call requirement; however, attendance at weekend/holiday rounds and admissions duty (observation/participation) is offered. Established duty hour rules for students will be followed.

NEU3-3010/F SENIOR CLERKSHIP IN NEUROLOGY - CHATTANOOGA

Course Coordinator: Abdelazim Sirelkhatim, MD

Location: Erlanger Health Center

Size: 1

Note: Offered in Blocks 7,9,12, and 3

This is a face to face clinical rotation offered in the fall and spring semesters

Patient Care

- Obtain a complete and reliable neurological history and physical examination.
- Understand the workup and treatment of common neurological disorders, (CVA, seizures, for example)

Medical Knowledge

- Develop the skills necessary for performing a proper neurological exam

Practice Based Improvement

- Application of neuroanatomic principles for lesion localization in the nervous system; understand the use of evidence-based medicine and published clinical guidelines in generating appropriate management plans.

Interprofessional and Communications Skills

Deliver a clear, concise and thorough oral presentation of a patient's history and exam; demonstrate effective communication skills with staff, physician, nurses and patients.

Professionalism

Students must behave in a professional manner and demonstrate an appropriate demeanor and compassionate care towards all patients. Treat all staff and colleagues with respect.

Systems-Based Practice

Understand optimizing patient care within the healthcare system. Understand the appropriate use of system resources such as imaging of the CNS. Work with multi-disciplinary teams to provide optimal patient care.

The numbers of patients per day for whom the student will have some responsibility are 3-5. Responsibility will include inpatients, outpatients, and limited neurology night call/weekend call. The student will follow 3-5 patients and will be responsible for H&P daily orders, daily notes, on service notes, discharge summaries, and an up to date list of discharge medications. The student is expected to read about his/her patients and discuss cases daily with attending. The student will spend two weeks on the inpatient service and two weeks in the outpatient setting. Inpatient will be in the hospital seeing/admitting patients. The outpatient weeks will consist of 1 week each in epilepsy, neuromuscular, sleep, or general neurology clinic. The student will receive informal feedback from his/her attending after two weeks and then a summative evaluation at the completion of the clerkship. The student will attend all neurology and other relevant conferences during the rotation. From time to time, there may be late consults. Students are expected to comply with working no more than an 80 hour work week on average.

PSY3-3002/F PSYCHIATRY CLERKSHIP-CHATT

Clerkship Director: Terry Holmes, MD, MPH & TM

Location: Moccasin Bend Mental Health Institute and Erlanger Health System

Size: 4

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Blocks offered: 2015: 10, 12 and 2016: 2, 4

This 4 week clerkship is located in Chattanooga at Moccasin Bend Mental Health Institute, a 125 bed hospital managed under the auspices of the Tennessee Department of Mental Health and Developmental Disability. All students will attend educational activities published by the office of the Clinical Director in association with the Department of Psychiatry at the UT COM Memphis. Most didactics will be video conferenced from Memphis to Chattanooga. Students will be exposed to a broad spectrum of psychiatric disorders presenting for admission from a 23 county catchment area. Attendance at lectures and teaching conferences is required. Clinical wards are run by a treatment team headed by an attending psychiatrist and a nurse practitioner. Treatment teams in addition include a coordinator, a team of social workers and activity therapists, nurses and psychiatric technicians. Psychology services are readily available and available on a consultation basis.

Students' final grade will be a reflection of examination performance (NBME Psychiatry shelf exam), clinical proficiency at psychiatric evaluation and mental status examination.

Attendance and participation in conferences and other learning opportunities will also weigh heavily in determination of the final grade.

Prerequisites: Students are strongly encouraged to hold on to their M2- lecture notes in Psychopharmacology and Psychopathology, and to refresh their memory in this domain within the first 36 hours of the clerkship. This prior knowledge is expected from the very first day.

Course objective: To develop skills in:

1. Psychiatric evaluation. The student will be able to observe/participate in assessment of patients presenting to admission for possible admission.
2. Develop an understanding of psychiatry and the law. Exposure to forensic psychiatry on a weekly basis is offered. Legal requirements for involuntary admission and treatment will be emphasized.
3. Develop a working knowledge of psychopharmacology to include indications, mechanism of action, risks and benefits. An emphasis on cost-effective evidence based treatment will be a focus of learning.
4. Evaluation and treatment of outpatients presenting to a psychiatric clinic, with exposure to issues of administration and insurance benefit.
5. Case examples/vignettes incorporating differential diagnostic process will be reviewed locally and on-line with the course directors at UT Memphis
6. Develop knowledge of medical entities masquerading as psychiatric illness with an emphasis on diagnosis and management of delirium
7. Recognition and suspicion of substance abuse in clinical practice.

By the end of the clerkship, the student should be able to recognize and be able to formulate a differential diagnosis; including the possibility of comorbid or co-occurring diagnoses. Students should know commitment criteria and be able to complete a certificate of need for involuntary hospitalization, and have a working knowledge of the mechanics of hospitalization. Students should be able to develop an understanding of when and where to refer patients for further evaluation and treatment.

Student will be assigned to a 25 bed acute or sub acute ward and will participate with the treatment team in development of a comprehensive treatment plan. Each student will have some responsibility for 6-8 patients in the 25-bed acute or sub acute ward at Moccasin Bend on a daily basis. They will also have a similar number of patients in the Geri-Psych inpatient and outpatient services at Erlanger North. Each student will also have exposure to a half-day with a Pediatric Psychiatrist during the rotation as well as another day with a local psychiatrist who provides electroconvulsive therapy (ECT).

Ultimate responsibility for patient care rests with the attending psychiatrist who leads the treatment team. Medical students will have limited responsibility but will be allowed to conduct supervised interviews with patients, and in accordance with hospital bylaws, all responsibilities for inpatient chart documentation rests with the treatment team. Students will have ample opportunity to present written and sample chart notes as part of their learning experience.

Moccasin Bend faculty and treatment team professionals will supervise students directly (physicians, psychologists, nurses, nurse practitioners, psychiatric technicians) responsibilities for inpatient chart documentation rests with the treatment team. Students will have ample opportunity to present written reports and sample chart notes

as part of their learning experience. Students will service in an observing role during the pediatric psychiatry and ECT portions of the clerkship.

Moccasin Bend faculty and treatment team professionals will supervise students directly (physicians, psychologists, nurses, nurse practitioners, psychiatric technicians. Erlanger North faculty will directly supervise students at that site.

Students will attend training sessions conducted by the course supervisor and other assigned professional staff. They will be expected to attend the regularly scheduled Nurse practitioner training scheduled twice monthly. They will have at least two or three formal didactic lectures each week, including several that will be available via videoconference from the UT Memphis Psychiatry Clerkship. Students will attend weekly Internal Medicine Grand Rounds at Erlanger Medical Center. They should attend any ad hoc case conference and sit in and participate in treatment Review Committees conducted in accordance with Tennessee Law. Students will also rotate through the on-site Medical Clinical to help treat psychiatric patients with acute and chronic medical problems.

There is no student overnight call requirement; however, attendance at weekend/holiday rounds and admissions duty (observation/participation) is offered. Established duty hour rules for students will be followed.

PSY3-4010/F Public Sector Inpatient Psychiatry in the 21St Century-Chatt

Course Coordinator: Terry Holmes, MD

Location: Moccasin Bend Mental Health Institute

Size: 1-2

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

Note: This course will be offered by special arrangement only. Email Crystal Champion with Dr. Holmes to request approval: Crystal.H.Champion@tn.gov.

The primary goal of this rotation is to provide the student with a clinical appreciation of the spectrum of common psychiatric diagnoses and their management. Psychopharmacology and psychopathology are emphasized along with clinical problem - solving. The student should gain an understanding of the types of problems referred for in-patient treatment. Use of the scientific literature to base decision-making on is stressed in this science of the practice of behavioral medicine. The students will have total-under supervision of attending physician with support of the treatment team. Daily supervision by faculty and residents. The student will learn and perform mental status exam. They will become familiar with DSM-IV axis system. The student will also become familiar with DSM-IV diagnostic criteria for: delirium, dementia, alcohol abuse/dependence, drug abuse/dependence, schizophrenia, affective disorders (unipolar, bipolar), anxiety disorders (social phobia, GAD, PTSD, ob-comp, panic disorder, simple phobia), personality disorders, somatoform disorders. The student will be able to rule in or out "organic" causes of psychiatric symptoms. The student will learn how to approach the treatment of: unipolar depression, pain disorder, anxiety disorders, bipolar affective disorder, diagnostic clarification and treatment of psychosis, alcohol/drug intoxication/withdrawal. The student will attend weekly Internal Medicine grand rounds at Erlanger hospital. Monthly rounds at Moccasin Bend Mental Health Institute – Psych Link and monthly clinical case conference. The student will work in Admissions on evenings/nights/weekends - entirely optional. Free housing is available on hospital grounds if desire.

PSY3-4150/F ELECTIVE IN PRIVATE PRACTICE PSYCHIATRY-CHATT

Course Coordinator: Timothy R. Jennings, MD

Locations: M-F – TMS Chattanooga

6148 Lee Highway, Suite 200, Chattanooga, TN 37421, (423-531-4110)

Size: 1

This is a face to face clinical rotation offered in the fall and spring and receiving 7 credit hours.

**Note: This elective can be half-time (PSY3-4150/H)
This elective is offered in Blocks 1, 2, 6, 8, 11 and 12**

The student will learn the day to day routines of running a private practice, clinically and administratively, with particular emphasis on no-invasive TMS treatments (Transcranial Magnetic Stimulation) for depression. The student will sit in session with Dr. Jennings and directly observe initial assessments, psychotherapy, family therapy and marital therapy. The student will discuss differential diagnosis and formulate treatment plans in conjunction with Dr. Jennings. As patients permit, there will be limited opportunity for the student to do initial interviews on their own, present to Dr. Jennings and then observe Dr. Jennings' evaluation of the patient. Dr. Jennings will provide teaching and supervision. The student will also be exposed to the administration/business operation of a private practice and, as an exercise, develop an action plan to start their own practice and devise a basic marketing plan.

URO3-4010/F Urology Elective – CHATTANOOGA

Course Coordinators: Amar Singh, M.D.

Location: Erlanger Health System

Size: 1

This is a face to face clinical rotation offered in the fall and spring semesters and receiving 7 credit hours.

The educational learning objectives for this course:

Patient Care

1. Demonstrate efficient history taking skills on patients presenting with complaints.
2. Demonstrate physical examination skills in the evaluation of non-critical patients presenting with common urology complaints.
3. Formulate a differential diagnosis of the most likely conditions based upon symptoms and signs.
4. Consider the differential diagnosis in order non-critical patients presenting with common urology complaints. From the most serious pathology to the least.
5. Order and interpret common ancillary studies such as lab tests or radiographs on urology patients.
6. Institute appropriate therapy of common urology complaints.
7. Make decisions concerning the need for patient hospitalization.
8. Demonstrate proficiency in procedural skills appropriate for the medical student level, under the direct supervision of an attending physician.
9. Establish the ability to manage 1 to 3 patients simultaneously.
10. Develop and carry out patient management plans.

The numbers of patients per week for whom the student will have some responsibility for are 10.

Students are responsible for pre-rounding on their personal patients prior to rounds and presenting to the team on daily rounds including a complete assessment and plan. Personal patients are assigned by the resident or attending. Students observe and assist in surgeries and follow their respective patients from admission until discharge thus establishing a pattern of continuity of care. Students will also experience patient care in an outpatient setting by seeing patients in the urology clinic under the supervision of the faculty and senior residents. For the 3rd year rotating students, emphasis will be placed on history and physical performance and gaining an understanding of basic urological disease. For 4th year students their responsibility is increase to overseeing and guiding pre-rounds with regards to the junior students. They will be expected to act as interns albeit without the same authority and level of supervision. All students will not be responsible for performing any procedures in an independent unsupervised manner.

All patient care will be supervised or directed by either a resident or faculty member. Indirect supervision by a faculty member or resident may be applicable to obtaining a history and physical, surgical dressing changes and postoperative surgical drain management. All inpatient, outpatient and floor procedures will be performed with direct supervision from a faculty member or a resident with the appropriate supervisory status (senior resident may take the student through a cystoscopy).