ANAT 7790
Advanced Surgery-based Anatomical Dissection

This course is intended for Tulane medical students registered in the first, second or third year of study that have registered for the combined MD-MS degree in Anatomy. Students are required to register for the course before the start of the course in July. All other students who wish to take the course as an elective should contact the program director.

Goals
The course introduces students to the application of practical anatomy in surgery. This course only deals with the aspects of operative surgical procedure that relates directly to anatomy. It does not cover surgical diseases, clinical presentation, management, clinical decision-making, or complications. Upon completion of this activity, students will be able to
1. understand how the principles of anatomy are applied to operative surgery
2. understand the appropriate use and application of the principles of anatomy in operative surgery.

Course format
This course is an intensive program over 9 operative surgical procedures consisting of instructional and hands-on laboratory sessions. The purpose of this course is to offer a unique opportunity for students to learn from master surgeons, with the emphasis on instruction that illustrate the anatomical basis of and relationship to various surgical procedures. Each session during the course allows a ‘hands on’ experience to perform these procedures using fresh cadavers. This course is a natural progression for those students who have already taken a dissection-based gross anatomy course and plan on a career in one of the surgical specialties. The course will also enhance student experience with fundamental surgical techniques.

A handbook will be provided for the course to guide you carefully through the surgical procedures that you will perform in this course. Each procedure will describe and illustrate the anatomy of the region to be operated and the surgical procedure to be carried out. You will be expected to review the anatomy of the region to be operated on before you arrive for each session. Each session will consist of an introductory pre-surgery session where the procedure will be outlined and discussed. This will then be followed by the surgery: each session is projected to last between 2-3 hours. The surgery is then followed by a debriefing and discussion session.

Course Director:
Dr. Melanie Korndorffer

Credits: 5

Dates of class:
Mon-Fri 9:00am-12:00pm
Schedule as published.

Course venue:
Center for Advanced Practice

Required:
Attend seminar Submit essay to mkorndor@tulane.edu

Resources
Course Handbook, Touch Surgery app (IOS and Android), Tulane SIM Center
For reference: any textbook of operative surgery
[Farquharson’s Textbook of Operative Surgery (8th or 9th edition), Zollinger’s Atlas of Surgical Operations]

Grades
According to the grading scheme for the BMS Graduate program A-B-C-D-E.
Final grades will be posted in Blackboard at the end of the course.
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Assessment & Grading
There is no written test or examination in this course. A scoring template is provided for reference and guidance only. Final grade for the course will be calculated based on attendance at sessions and assessment of a 1000-word critical essay identifying 2 aspects from all the collective procedures that for them best illustrated the relationship between gross anatomy and operative surgery. It is important to note that a grade of C or lower leads to probation for the degree of MS in Anatomy (see BMS Graduate School regulations).

Directions
All of the activities in the course will take place at the LSU Center for Advanced Practice. The Center is located in the Lions Building at 2020 Gravier Street. You gain access to the building by going through the LSUHSC Parking Garage across the street from the LSU Resource Center and Library at 433 Bolivar Street. Enter the parking garage and take the elevators to the third (3rd) floor. Turn left, walk along the elevated crosswalk, go past the vending machines on your right. Go straight over the hump. Take the next crosswalk to the right into the Lions Building. Take the elevators to the 5th floor. Go towards the back of the floor to the Center for Advanced Practice.

Surgeries covered in the course

Neck
1. tracheotomy
2. thyroidectomy
Abdomen
3. cholecystectomy
4. appendectomy
5. herniotomy
6. splenectomy
Chest
7. thoracotomy
Leg & Foot
8. ankle fusion
9. tendon transfer (Bridle procedure)

You will perform or assist (under guidance by instructors) each surgery.