

# SURGERY

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Fourth year elective rotations are designed to engage the student, integrate their knowledge of anatomy, pathophysiology, and clinical decision making. Rotations involve experiences in the outpatient clinic setting, inpatient wards, operating room and procedural areas. Each elective allows for graduate responsibility in patient care to progress to functioning at the level of an intern.

Completing a surgery elective during Phase 3 will contribute to your education and development as a physician, regardless of your chosen specialty. Students who chose the General Surgery Career Specialty Track will be required to complete the three electives in surgery, with one completed after January of the senior year.

Contact the Surgery CST Coordinator (<https://catalog.unmc.edu/medicine/curriculum/phase3/career-specialty-tracks/>) with scheduling questions unless a course administrator is specified for a course in the course description.

## **SURG 710 PLASTIC SURGERY 4 Credit Hours**

SUB-INTERN

This elective experience is designed to expose senior students to the principles of plastic surgery and possibly enhance any interest they may have in the field. Areas of focus include general plastic surgery, cosmetic and aesthetic surgery, breast reconstruction, pediatric craniofacial, facial trauma, burn and wound. The student will be expected for daily rounds, elective and occasionally emergency operations. Overnight on-call with the senior surgical resident on the service would be beneficial. Students will be expected to give a 15-minute indications presentation in their last week of the rotation. Rotations Offered: Each 4 weeks. Site: ESH 6011. Instructor: Dr. Hollins, Dr. Miller, Dr. Johnson, Dr. Figy, Dr. Wong, Dr. Hon, Dr. Yang, and Dr. James Willcockson  
Typically Offered: FALL/SPR  
Capacity: 1

## **SURG 720 UROLOGY 4 Credit Hours**

SUB-INTERN

Students are active participants in the team caring for patients. Students will be exposed to genitor-urinary tract disease recognition, diagnosis, and therapy and be encouraged to partake fully in the pre-operative, intra-operative and post-operative management of these patients. Students are expected to give a clinical case study presentation during didactic conference during the month rotation. This case will be approved by a faculty advisor prior to presentation. Students will participate in 2-3 hrs. of didactics/conferences a week including morbidity and mortality, tumor board, radiology, indications, and other educational conferences. Rotations Offered: Each 4 weeks. Site: SSP 2015. Instructor: Dr. LaGrange, Dr. Deibert, Dr. Christiansen, Dr. David, and Dr. Hill  
Typically Offered: FALL/SPR  
Capacity: Variable

## **SURG 722 PEDIATRIC SURGERY 4 Credit Hours**

SUB-INTERN

On the pediatric surgical service, students will have the opportunity to see firsthand the physiology, pathology, and surgical care of a variety of surgical problems, from newborns up to adulthood. Students will have the opportunity to follow patients from the clinic, admission, scrub into their OR case, and follow them postoperatively. There are weekly pediatric surgical teaching conferences as well as weekly multidisciplinary conferences that the students will participate in. Students may be asked to give a presentation at a conference based on a patient they cared for during their rotation. Students are expected to come in on one day each weekend. Rotations Offered: Each 4 weeks.

Instructor: Dr. Hanna, Dr. Thomas, and Dr. Zarroug

Typically Offered: FALL/SPR

Capacity: 1

## **SURG 725 CARDIAC SURGERY 4 Credit Hours**

SUB-INTERN

During this elective, the student will function as a sub-intern. Students will participate in the pre-operative clinic evaluation of cardiac surgical patients, the surgical procedures, and the post-operative management. At the end of this rotation, the student should have an understanding of the diagnostic procedures used in evaluation cardiac and pulmonary disease, indications and contraindications for surgery, a thorough acquaintance with intra-operative cardiopulmonary bypass and post-operative cardiac intensive care unit management including mechanical ventilation, pharmacological agents utilized in the care of cardiac patients and extracorporeal membrane oxygenation. The student will be expected to be available for daily rounds, weekly conferences, elective and occasionally emergent operations (i.e., transplants). Overnight call is not typically necessary. Rotations Offered: Each 4 weeks.

Instructor: Dr. Moulton, Dr. Siddique, Dr. Um, Dr. Castleberry, Dr. B. Duncan, and Dr. K. Duncan

Typically Offered: FALL/SPR

Capacity: 1

**SURG 726 ORAL SURGERY 4 Credit Hours**

## SUB-INTERN

During this elective, the student will function as a sub-intern. This elective is designed to expose the medical student to the full scope of oral and maxillofacial surgery (OMFS). The student will participate in all aspects of patient care including surgical evaluation and management of facial, head, and neck trauma, orthognathic (jaw) surgery, TMJ surgery, facial reconstruction, dentoalveolar surgery (third molar extractions), endosseous implants, and ambulatory management of patients. The student will have the opportunity to improve their head and neck anatomy and participate hands-on with suturing, administration of local Anesthesiology intraorally, and engage in regular didactic case conferences and grand rounds. Training to become an OMF surgeon includes doctorate degrees in both medicine and dentistry along with completion of a surgical residency. The student will gain exposure to the broad scope of practice of an OMFS - which includes facial reconstructive and trauma surgery, orthognathic surgery, dentoalveolar surgery, cosmetic surgery, oral, head, temporomandibular joint surgery, cleft lip/palate surgery, endosseous implant surgery, obstructive sleep apnea management and surgery, nerve repair, and more. Objectives for the student at the end of the four-weeks are to: Develop skills of pre-operative, operative, and post-operative patient management; Enrich their didactic surgical knowledge and head and neck anatomy; Improve hands-on surgical skills by participating in all aspects of care; and Understand how oral and maxillofacial surgery integrates within the tertiary care healthcare system. Rotations Offered: Each 4 weeks.

Instructor: Dr. Desa, Dr. Untrauer, Dr. Tucker, and Dr. Robinson

Typically Offered: FALL/SPR

Capacity: 1

**SURG 727 THORACIC SURGERY 4 Credit Hours**

## SUB-INTERN

During this elective, the student will function as a sub-intern. They will participate in the pre-operative evaluation of thoracic surgical patients, the surgical procedures, and the post-operative management of these patients. At the end of this rotation, the student should have an understanding of the diagnostic procedures used in evaluation of thoracic and pulmonary disease, indications and contraindications for surgery in these patients, radiologic and pathologic evaluation of thoracic malignancy, invasive hemodynamic monitoring, and ventilator management, as well as a familiarity with pharmacological agents utilized in the care of these patients. Rotations Offered: Each 4 weeks.

Instructor: Dr. Lackner and Dr. Berkheim

Typically Offered: FALL/SPR

Capacity: 2

**SURG 728 GENERAL SURGERY IN AFFILIATED HOSPITALS 4 Credit Hours**

## SUB-INTERN

Services: Methodist: Drs. Reilly, Winterstein, Buda, Carson, Kolkman, Grams, and Poole. Students selecting an elective at Methodist Hospital will be assigned to the General Service. This will include exposure to GI, minimally invasive and Robotic, Bariatric, Breast and GI Oncology Surgery. Hospital assignments are made through the Department of Surgery. Private Colorectal Surgery (CRS): Dr. Beaty. Students selecting an elective at Methodist Hospital will be assigned to a teaching service of their choice when possible; however, in the interest of optimal educational experiences, it may be necessary to assign students to unfilled positions. Hospital assignments are made through the Department of Surgery. Rotations Offered: Each 4 weeks.

Prerequisite: Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: 1

**SURG 729 GENERAL SURGERY AT THE VETERANS ADMINISTRATION MEDICAL CENTER 4 Credit Hours**

## SUB-INTERN

Students will be expected to function as sub-interns on the service, including the pre- and post-operative management of patients with emergent and elective surgical diseases including benign and malignant hepatopancreaticobiliary, gastrointestinal, cutaneous disorders. The student will be expected to be an active participant in the clinic, operating, room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team. Rotations Offered: Each 4 weeks.

Prerequisite: Not open to visiting students.

Instructor: Dr. Carlson, Dr. Rivard, Dr. Murante, and Dr. deRosa

Typically Offered: FALL/SPR

Capacity: 1

**SURG 730 LIVER TRANSPLANTATION SURGERY 4 Credit Hours**

## SUB-INTERN

This elective is recommended to all students interested in a career in surgery with a special interest in solid organ transplantation. Students will function as a sub intern for the transplant patients only and will be intimately involved in all phases of the transplantation procedure; both donor and recipient operation, pre- and post-operative management and regulation of immunosuppressive drugs. Students will be exposed to patients undergoing liver transplant. In addition, all general surgical procedures on transplant patients and hepatobiliary operations will be a part of the rotation. The student must be available at all times throughout the rotation due to the unpredictable nature of transplantation. Rotations Offered: Each 4 weeks.

Instructor: Dr. Langnas, Dr. Grant, Dr. Mercer, Dr. Vargas, and Dr. Merani

Typically Offered: FALL/SPR

Capacity: 1

**SURG 741 COLORECTAL SURGERY 4 Credit Hours**

## SUB-INTERN

This elective is recommended to students interested in a more in-depth exposure to colorectal surgery. Student will be expected to function as sub-interns on the service, including the pre- and post-operative management of patients with benign and malignant conditions of the lower gastrointestinal tract including colorectal cancer, inflammatory bowel disease, diverticular disease, benign anorectal disorders, and screening or diagnostic colonoscopy. The student will be expected to be an active participant in the clinic, operating room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team. Rotations Offered: Each 4 weeks.

Instructor: Dr. Thompson, Dr. Langenfeld, Dr. Batra, and Dr. Leinecke

Typically Offered: FALL/SPR

Capacity: 1

**SURG 742 MINIMALLY INVASIVE AND BARIATRIC SURGERY 4 Credit Hours**

## SUB-INTERN

This elective is recommended to students interested in a more in-depth exposure to minimally invasive laparoscopic and robotic surgery, specifically bariatric, foregut and hernia surgery. Students will be expected to function as sub-interns on the service, including the pre- and post-operative management of patients with complex upper gastrointestinal tract disorders, including bariatric, foregut, and hernia surgery. The student will be expected to be an active participant in all areas where patients are evaluated, including clinic, Emergency Medicine, and in the perioperative period. Prior to the conclusion of this rotation the student will be responsible for preparing a formal case presentation to all members of the team, which should focus on an interesting case that the students were involved in during the rotation. Rotations Offered: Each 4 weeks, except August and April.

Instructor: Dr. Haskin, Dr. McBride, Dr. Kothari, Dr. Murante, and Dr. Tanner  
Typically Offered: FALL/SPR  
Capacity: 1

**SURG 743 VASCULAR SURGERY 4 Credit Hours**

## SUB-INTERN

This elective is recommended to students interested in a more in-depth exposure to vascular surgery. Students will be expected to function as sub-interns on the service, including the pre- and post-operative management of patients with vascular disease to include carotid stenosis, aortic and visceral aneurysm, peripheral arterial disease, arterial embolic occlusive disease, venous thrombosis and venous insufficiency using open and endovascular techniques. The student will be expected to be an active participant in the clinic, operating, room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team. Rotations Offered: Each 4 weeks.

Instructor: Dr. Longo, Dr. Johanning, Dr. MacTaggart, Dr. Pipinos, Dr. Cook, and Dr. J.R. Thompson  
Typically Offered: FALL/SPR  
Capacity: 1

**SURG 744 GASTROINTESTINAL SURGICAL ONCOLOGY 4 Credit Hours**

## SUB-INTERN

This elective is recommended to students interested in a more in-depth exposure to gastrointestinal surgical oncology. Students will be expected to function as sub-interns on the service, including the pre- and post-operative management of patients with malignancy of the gastrointestinal and hepatopancreaticobiliary systems including esophageal, gastric, small bowel, colorectal, hepatic, pancreatic, and perineal carcinomatosis. The student will be expected to be an active participant in the clinic, operating, room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team. Rotations Offered: Each 4 weeks.

Instructor: Dr. Are, Dr. Foster, Dr. Ly, Dr. Padussis, Dr. Reames, and Dr. Mammen  
Typically Offered: FALL/SPR  
Capacity: 1

**SURG 745 BREAST, ENDOCRINE, CUTANEOUS SURGICAL ONCOLOGY 4 Credit Hours**

## SUB-INTERN

This elective is recommended to students interested in a more in-depth exposure to the surgical management of benign and malignant breast and endocrine disease and cutaneous malignancy. Students will be expected to function as sub-interns on the service, including the pre- and post-operative management of patients with benign and malignant breast, thyroid, parathyroid, adrenal, and endocrine pancreatic diseases along with management of cutaneous malignancy. The rotation functions in a preceptor model with the student assigned to specific Attendings for 2 weeks each to increase continuity and depth of exposure. The student will be expected to be an active participant in the clinic, operating, room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team as well as attending weekly tumor board conferences. One weekend of call/rounding are expected during the four-week rotation. No overnight call is assigned. Rotations Offered: Each 4 weeks.

Instructor: Dr. Fingeret, Dr. Shank, Dr. Maxwell, Dr. Santamaria, and Dr. D. Ly  
Typically Offered: FALL/SPR  
Capacity: 1

**SURG 746 SURGICAL CRITICAL CARE 4 Credit Hours**

## SUB-INTERN

This elective is recommended to students interested in a more in-depth exposure to the management of critically ill surgical patients. Student will be expected to function as sub-interns on the service, including the pre- and post-operative management of patients with critical illness. The student will be expected to be an active participant in the surgical intensive care unit including management of critically ill patients who require hemodynamic monitoring, ventilator management, and have organ dysfunction or failure. Students will participate in daily morning reports and team rounds. Students will observe and may perform procedures under direct supervision including venous and arterial line placement, bronchoscopy, intubation and ultrasonography. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team. It is recommended the student take at least 3 call shifts during their time on the service. This will allow the student the opportunity to see and experience all aspects of the Trauma and Acute Care Surgical specialty. Call shifts will be assigned at the beginning of the rotation. Rotations Offered: Each 4 weeks.

Instructor: Dr. Cantrell, Dr. Evans, Dr. Bauman, Dr. Sheppard, Dr. Kamien, Dr. Goede, Dr. Waibel, Dr. Terzian, Dr. Hamill, Dr. Josef Berning, Dr. Cemaj, Dr. Buesing, Dr. Matos, Dr. Tierney, Dr. Bennett, and Dr. Kemp  
Typically Offered: FALL/SPR  
Capacity: 1

**SURG 747 TRAUMA SURGERY 4 Credit Hours**

## SUB-INTERN

This elective is recommended to students interested in a more in-depth exposure to the evaluation, surgical intervention, inpatient care, and clinic follow-up of the multiply injured trauma patient. Students will be expected to function as sub-interns on the service and acquire an understanding of the initial assessment, resuscitation and stabilization of a trauma patient. Students will participate as active members of the trauma patient care team, including the pre- and post-operative management of patients with acute injury from the initial presentation. Students will participate in daily morning reports and team rounds. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team. Weekday, night and weekend shifts will be assigned. It is recommended the students take at least 3 call shifts during their time on the service. This will allow the student the opportunity to see and experience all aspects of the Trauma and Acute Care Surgery specialty. Call shifts will be assigned at the beginning of the rotation. Rotations Offered: Each 4 weeks.

Instructor: Dr. Cantrell, Dr. Evans, Dr. Bauman, Dr. Sheppard, Dr. Kamien, Dr. Goede, Dr. Waibel, Dr. Terzian, Dr. Hamill, Dr. Josef Berning, Dr. Cemaj, Dr. Buesing, Dr. Matos, Dr. Tierney, Dr. Bennett, and Dr. Kemp

Typically Offered: FALL/SPR

Capacity: 1

**SURG 748 EMERGENCY GENERAL SURGERY 4 Credit Hours**

## SUB-INTERN

This elective is recommended to students interested in a more in-depth exposure to the management of emergent general surgery conditions. Students will be expected to function as sub-interns on the service, including the pre- and post-operative management of patients with a variety of acute non-traumatic surgical diseases including but not limited to bowel obstruction, visceral perforation, gastrointestinal hemorrhage, cholecystitis, pancreatitis, appendicitis, and diverticulitis. The student will be expected to be an active participant in the clinic, operating room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team. Weekday, night and weekend shifts will be assigned. It is recommended the student take at least 3 call shifts during their time on the service. This will allow the student the opportunity to see and experience all aspects of the Trauma and Acute Care Surgery specialty. Call shifts will be assigned at the beginning of the rotation. Rotations Offered: Each 4 weeks.

Instructor: Dr. Cantrell, Dr. Evans, Dr. Bauman, Dr. Sheppard, Dr. Kamien, Dr. Goede, Dr. Waibel, Dr. Terzian, Dr. Hamill, Dr. Josef Berning, Dr. Cemaj, Dr. Buesing, Dr. Matos, Dr. Tierney, Dr. Bennett, and Dr. Kemp

Typically Offered: FALL/SPR

Capacity: 1

**SURG 749 KIDNEY TRANSPLANT 4 Credit Hours**

## SUB-INTERN

This elective is recommended to students interested in a career in surgery with a special interest in solid organ transplantation. Student will be expected to function as sub-interns for kidney transplant patients only and will be intimately involved in all phases of the transplantation procedure; both donor and recipient operation, pre- and post-operative management and regulation of immunosuppressive drugs. Students will be exposed to patients undergoing kidney and pancreatic transplant. In addition, all general surgical procedures on transplant patients will be a part of the rotation. The student must be available at all times throughout the rotation due to the unpredictable nature of transplantation. Rotations Offered: Each 4 weeks.

Instructor: Dr. Maskin, Dr. Hoffman, and Dr. Merani

Typically Offered: FALL/SPR

Capacity: 1

**SURG 750 GLOBAL/INTERNATIONAL HEALTH ELECTIVE 4 Credit Hours ELECTIVE**

The course offers students the opportunity to participate in a health care setting in a foreign country. Students' responsibilities, performed under the supervision of trained medical personnel, may include work in clinics and hospitals; home visits with community health workers, and health education. In addition, the student will also participate in a brief orientation and debriefing on campus. Rotations Offered: Each 4 weeks. Prerequisite: Pre-arrangement with the Surgery CST Coordinator and Sarah Pirtle (Office of Global Engagement), and an approved application for an away elective. Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: Variable

**SURG 760 AWAY SURGERY 4 Credit Hours**

## ELECTIVE

Special off-campus electives at other medical centers can be arranged for an extraordinary learning experience not regularly available within the department. The primary concern is to identify a responsible and acceptable faculty-in-absentia who can assure an active clerkship and offer an evaluation of performance. A student evaluation of this clerkship will be required upon completion. Rotations Offered: Each 4 weeks. Prerequisite: An approved application for an away elective. Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: Variable

**SURG 766 PRECEPTORIAL SURGERY 4 Credit Hours**

## SUB-INTERN

Many members of the active faculty have indicated a willingness to share a preceptorial clerkship with a student. The list of faculty is maintained in the Department of Surgery. This involves surgeons on our faculty in active practice in Council Bluffs, O'Neill, Lincoln, Kearney, Scottsbluff and Omaha and can be arranged with the member of the faculty and certified by the Department of Surgery. Positions are available at Lincoln Veterans Administration Hospital. Bear in mind that each member of the faculty will set their own individual student limit. A responsible and acceptable faculty-in-absentia, who can assure an active clerkship and offer an evaluation of performance, must be identified prior to approval. An evaluation of the student's performance will be required upon completion and the student is responsible for assuring that the department receives the evaluation. Rotations Offered: Each 4 weeks.

Prerequisite: Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: Variable

**SURG 790 SURGERY RESEARCH 4 Credit Hours**

## ELECTIVE

This elective offers students an opportunity to work with faculty members in clinical investigations of surgical disease in ongoing bench research projects. Definitions of problems and programs of learning will be decided upon discussion with faculty. Rotations Offered: Each 4 weeks.

Prerequisite: A letter from your PI is required before approval will be given for this course. Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: Variable