

# SURGERY (SURG)

Courses numbered 500-799 are considered Graduate-level coursework. Courses numbered 800+ are considered professional/first-professional-level courses.

Subject-area course lists indicate courses currently active for offering at the University of Louisville. Not all courses are scheduled in any given academic term. For class offerings in a specific semester, please contact the School of Medicine student records coordinator (natalie.harper@louisville.edu).

## Course Fees

Some courses may carry fees beyond the standard tuition costs to cover additional support or materials. Program-, subject- and course-specific fee information can be found on the Office of the Bursar website (<http://louisville.edu/bursar/tuitionfee/>).

### SURG 816. Special Project-Surgery 1-16 Units

**Description:** This course is to be arranged to fit individual needs to cover topics of current interest, to participate in research projects or to receive some advanced training.

For class offerings for a specific term, refer to the Schedule of Classes (<http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm>)

### SURG 901. Basic Surgery Clerkship 10 Units

**Description:** Required third-year clerkship. The eight-week junior clerkship in general surgery enables students to work as clinical clerks in the operating rooms and outpatient clinics of University affiliated hospitals. Opportunities are provided for the history and physical exam and workup of surgical patients and for participation in their daily care in the hospital. Students receive orientation in the operating room and assist in operations performed on their patients. Students also attend clinics with their team and frequently see their patients again after discharge from the hospital. Lectures, seminars and hands-on demonstrations are especially emphasized. The last week of the clerkship is spent with multi-specialty surgeons in private group practice.

**Course Attribute(s):** CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

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### SURG 902. Inpatient General Surgery-UofL

2-4 Units

**Prerequisite(s):** Fourth-year standing.

**Description:** The student will join a teaching team consisting of at least one resident and supervising faculty member and will function as an acting intern under their direct supervision. As an acting intern, the student will participate in the pre-operative and post-operative care of surgical patients, as well as participate in the operating room. Specific duties will vary slightly between services and hospitals, though in general students are expected to round specifically on ICU patients first before rounding on ward patients. Hours will vary according to the rotation, but will average eight to twelve hours a day, occasionally longer. Students are expected to take in-house call no more frequently than every fourth night.

**Note:** Method of Evaluation is observation of performance.

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### SURG 903. Acting Internship-Honors Surgery

4 Units

**Prerequisite(s):** SURG 901.

**Description:** This fourth-year elective provides students with an interest in surgery the opportunity to participate in an advanced surgical clerkship rotation. The elective consists of two one-month rotations or surgical services with responsibilities of that of an intern [SOM Objective 6.3,6.4, 6.8, 7.6]. All students will complete required reading assignments prior to participation in the two hour hands-on skills lab and tissue dissection on Fridays, 9-11 AM. Students also have required weekly skills modules in the virtual reality laparoscopic simulator. Finally, students will take an advanced surgery clerkship exam and oral examination.

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### SURG 905. Area Health Education Center (AHEC) Rotation-Surgery

1-16 Units

**Prerequisite(s):** Fourth-year standing; this elective must be scheduled through the Surgery's Clinical Coordinator and the AHEC Office.

**Description:** Under the supervision of a practicing community surgeon, students will have the opportunity to participate in a four-week surgical practice in rural Kentucky. Clinical experience will be obtained in both private offices and in-patient settings. The student will develop knowledge of community characteristics and an understanding of how medical care delivery is affected.

**Note:** Method of Evaluation is observation of performance.

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**SURG 906. Clinical Elective/Urban****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** This elective is designed to offer the student an opportunity to obtain clinical experience in the private practice of a community surgeon in the Louisville Metropolitan Area. The student will participate in both office and hospital settings and learn both the clinical as well as the organizational aspects of surgical practice. The student must complete the Off-Campus Request Form and have it approved by the departmental course director.

**Note:** Method of Evaluation is observation of performance.

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**SURG 907. Clinical Elective, Off-Campus****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** The purpose of this course is to offer a clinical experience in an approved program in Surgery, usually under the supervision of a full time member of the faculty of a duly recognized educational or research institution. This experience will provide the student an opportunity to further develop clinical surgical knowledge and to assume responsibility for all aspects of patient care as a member of the surgical resident team. The student must complete the Off-Campus Request Form and have it approved by the departmental course director.

**Note:** Method of Evaluation is observation of performance.

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**SURG 910. Ambulatory Rotation-Surgery****1-4 Units****Prerequisite(s):** Fourth-year standing.

**Description:** AR Selective. Students will spend four weeks in a General Surgery ambulatory setting. Students will accompany General Surgery faculty in their private clinics and observe office practice. The student will participate in the care of patients and the study of a wide spectrum of General Surgical practice including Colorectal, Gastro-intestinal, Oncology, and Vascular Surgery. The student may also be required to follow selected patients in the hospital and will have the opportunity to scrub in and assist on some operations. Course goals include allowing the student to experience the busy private office practice in General Surgery and establishing a one-on-one professional relationship with any one of a number of General Surgery faculty.

**Note:** Method of Evaluation includes 100% observation and performance in the private office, plus operative case and activity reports filed by the student.

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**SURG 911. Research-Surgical Problems****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** The purpose of this course is to acquaint the interested medical student with laboratory environment and basic skills. Opportunities to engage in significant research are available to students who elect to work with faculty on research assignments. The goal will be to assign a project already started or designed to be brief so that a defined end point can be reached in four weeks. Goals include specific goals to be determined with the faculty mentor. Available opportunities are in General Surgery, Oncology, Pediatric Surgery, Otolaryngology, Thoracic & Cardiovascular and Plastic Surgery. Note: Method of Evaluation is as arranged with the instructor  
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**SURG 923. General Surgery****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** Surgical/Perioperative Selective. In this four-week elective, the student will participate in surgical activities with full-time General Surgery faculty as an Acting Intern at Jewish Hospital. The student will be directly supervised by the resident and attending staff. This will provide the student an opportunity for close personal contact with the full time faculty in General Surgery.

**Note:** Method of Evaluation is observation of performance.

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**SURG 924. Transplantation Surgery****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** Surgical/Perioperative selective. The student will rotate on the liver, pancreas and kidney transplant services at Jewish Hospital with daily rounds and patient contact. The student will assist on all operative procedures and be intimately involved in the postoperative care. A weekly conference will be attended with the topic discussed by the student and selected by the preceptor. Weekly transplant clinic will be attended by the student.

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**SURG 925. Trauma Service****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** ICU Selective or elective. In this two-week rotation, the student will serve in an acting intern-type capacity on the Trauma Service and will attend ward rounds with residents and faculty and participate in all surgical conferences and operating room experiences. The student will be assigned to selected ICU patients after approval by the resident and faculty on the basis of the educational value of the patient to the student. The student will be responsible for following and participating in that patient's care from admission to discharge. Because of the popularity of this rotation, first choice will be given to fourth-year students who have not participated on Trauma Service as a third-year student. This is an excellent rotation for students interested in gaining extensive training and exposure in critical care.

**Note:** Method of Evaluation is observation of performance.

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**SURG 926. General Surgery-Norton's****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** Surgical/Perioperative Selective. In this four-week elective, the student will participate in surgical activities with full-time general surgery faculty as an acting intern at Norton Hospital. The student will be directly supervised by the resident and attending staff. This will provide to the student an opportunity for close personal contact with the full-time faculty in General Surgery. The student will participate in Journal Club discussions.

**Note:** Method of Evaluation is observation of performance.

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**SURG 927. Surgery-VA Medical Center****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** Surgical/Perioperative Selective. In this four-week experience, the student will serve in an acting intern-type capacity on the Surgical service, will attend ward rounds with residents and faculty and will participate in all Surgical conferences and operating room experiences. The student will be assigned to selected ICU and ward patients after approval by the resident and faculty on the basis of the educational value of the patient to the student. The student will be responsible for following and participating in the patient's care from admission to discharge.

**Note:** Method of Evaluation is observation of performance.

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**SURG 931. Surgical Oncology****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** This is a four-week elective. Medical students are often intimidated by cancer patients. It is important for physicians of all specialties to understand the basic principles of cancer diagnosis, staging, surgical treatment and adjuvant therapy. The complexities of understanding the management of breast, thyroid, rectal, head and neck cancers, melanoma, etc., can only be understood by repeated exposure to patients with these diseases. This Surgical Oncology elective allows regular structured exposure to cancer patients and their preoperative evaluation, as well as surgical techniques and postoperative care and follow-up. A significant amount of time will be spent in the clinics. Students will have the opportunity to see patients as they rotate through melanoma clinic, surgical oncology clinic at the Brown Cancer Center and attending the Brown Cancer Center Tumor Board at noon. The remainder of the time would be spent in the operating room and there will be significant amount of time.

**Note:** Method of Evaluation is observation of performance.

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**SURG 934. Pediatric Surgery****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** Surgical/Perioperative Selective. This four-week elective consists of working with the House Officers and attendings in the Division of Pediatric Surgery. Learning on the ward will be under the direction of the attending surgeons and the senior and junior house officers. The student will be responsible for doing history and physical examinations, writing progress notes, formulating a care plan on patients assigned and attending Surgical procedures. Attendance at the Monday and Thursday afternoon clinic is highly recommended. There is also opportunity to attend office hours in the private office. The student will be expected to make daily rounds with the house staff and will be on several night rotations with a house officer. The student will attend regular scheduled surgical teaching conferences with the house staff and attending staff. During the rotation, the students will prepare and present a case presentation to the pediatric surgeons and house staff.

**Note:** Method of Evaluation is observation of performance.

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**SURG 936. Plastic and Reconstructive Surgery****1-16 Units****Prerequisite(s):** Fourth-year selective.

**Description:** AR Selective. The purpose of this four-week course is to provide opportunity for clinical problem solving in Plastic and Reconstructive Surgery. Students will serve as preceptor of attending surgeons in cases involving wound healing biology, acute trauma, microsurgery, reconstructive surgery, craniofacial, cleft lip and palate, aesthetic and head and neck surgery. New innovations in Plastic and Reconstructive Surgery such as myocutaneous flap coverage of difficult wounds and microsurgical transfer of free tissue flaps will be available for student participation and clinical problem solving. Fundamental principles of Plastic and Reconstructive Surgery and their relationship to other disciplines will be stressed. Students will be part of the Plastic Surgery team of fellows and residents.

**Note:** Method of Evaluation is observation of performance.

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**SURG 937. Surgical GI Endoscopy and Laparoscopy****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** Surgical/Perioperative Selective. This is a four-week selective. Endoscopy is performed at UofL and at VAMC under the supervision of attendings and residents. The student will be expected to work closely with the resident and the attending staff in the preoperative assessment of these patients as well as participate in the endoscopy procedure and post-procedure care. In addition, the student will be expected to attend certain regularly scheduled surgical conferences as well as the combined Med-Surg GI Conference at UofL Hospital. The student will also have the opportunity to participate in ongoing research projects or may choose to initiate a new clinical project as time allows.

**Note:** Method of Evaluation includes observation of performance.

**Note:** This elective is no longer available.

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**SURG 944. Subinternship in Vascular and Endovascular Surgery****1-16 Units****Prerequisite(s):** Fourth-year standing.

**Description:** This four-week course is designed to introduce the fourth-year medical student to the evaluation and care of patients with atherosclerotic vascular disease, degenerative arterial disease and venous disease through the specialty practice of vascular/endovascular surgery. The student will be expected to make rounds and write notes on patients, perform history and physical exams, perform basic ward work, participate in open & endovascular procedures, evaluate patients in clinics, review & interpret axial & ultrasonographic images and experience work in the vascular diagnostic laboratory and interventional suite.

**Note:** Method of Evaluation includes observation of performance, interpretation skills, participation in procedures, clinics and conferences and performance on oral examination

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**SURG 946. Internship Boot Camp****4 Units****Prerequisite(s):** Fourth-year standing.

**Description:** this is only offered 3/13-4/7/23. This elective will offer the fourth-year student an intensive training in the clinical skills needed during the first-year of residency. Using simulation-based medical education and supervised patient care, the elective teaches the medical knowledge and clinical skills necessary to successfully assess and manage an airway, peripheral and central venous access, suturing and pre-operative evaluation. At the completion, the student will be able to demonstrate the knowledge of the normal structure and function of the human body at the level of the molecule, cell, organ/organ system, and patient as a whole; ability to recognize and manage life-threatening situations and carry out or direct ACLS/CPR; ability to perform common medical procedures such as the placement/care of sutures for small incisions/wounds or the application of splints/bandages; demonstrate the knowledge of the appropriate use of common medical devices, vascular catheters, endotracheal tubes, NG tubes; and demonstrate sterile techniques and universal precautions.

**Note:** Method of Evaluation includes that students will carry evaluation cards listing the objective skills they are expected to demonstrate; practicum faculty will initial the skill once demonstrated and will conclude with course faculty observing the student perform all skills in a simulated setting.

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