Surgical Technology

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To find faculty and staff phone numbers and email addresses, please consult the University Directory (http://www.dixie.edu/directory/directory.php).

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Program Description
Surgical technologists are allied health professionals who are an integral part of the surgical team. Their primary role is to work with surgeons, anesthesiologists, registered nurses and other surgical technologists in delivering patient care and assuming appropriate responsibilities before, during and after surgery.

Specifically, surgical technologists apply and maintain the principles of sterile technique and safety in the operating room; prepare, handle, and care for surgical instruments, supplies, equipment and medications; set up instrumentation, equipment and supplies for various surgical procedures; apply critical thinking skills to anticipate procedural steps and corresponding instrumentation; and pass surgical instrumentation, supplies, and medications to the surgeon during an operation.

The intensive 9-month surgery core portion of the program combines classroom lectures and discussions, laboratory demonstrations with hands-on practice, and supervised clinical experiences in actual patient care settings to provide students with a variety of learning opportunities.

Certification
Upon successful completion of the program, graduates are eligible to take the National Board Certifying Examination offered by the National Board for Surgical Technology and Surgical Assisting (NBSTSA) to become a Certified Surgical Technologist (CST).

Accreditation
The Dixie State University Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon recommendation by the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA). These organizations may be contacted at:

CAAHEP
25400 US Highway 19 North, Suite 158
Clearwater, FL 33763
Phone: 727-210-2350
www.caahep.org (http://www.caahep.org)

ARC/STSA
6 West Dry Creek Circle, Suite 110
Littleton, CO 80120
Phone: 303-694-9262
www.arcstsa.org (http://www.arcstsa.org)
Course Prefixes

• SURG

Degrees

• Associate of Applied Science in Surgical Technology (catalog.dixie.edu/programs/surgicaltechnology/associate_of_applied_science_in_surgical_technology)

Program Admission

To be considered for admission to the Surgical Technology program, an applicant must first be accepted as a Dixie State University student. The applicant must complete a separate application to the Surgical Technology program.

Surgical Technology is a limited-enrollment program and admits one class each fall. Surgical Technology program admission selection decisions are based on the cumulative scores achieved by applicants and are applied without regard to race, color, ethnic background, national origin, religion, creed, age, citizenship, disability, sexual orientation, marital status, veteran status, and/or gender. Applicants must verify that they are able to perform the essential functions of a surgical technologist. Some of our clinical sites require that students be at least 18 years of age to be eligible for clinical rotation placement.

The Surgical Technology program admission selection process utilizes a points system designed to predict potential for student success in the program. In the event that qualifying applications receive identical scores, the date of receipt of the completed applications will be used to assign admission priority. Final selection will be made and students will be notified by email message to the student's University email address. Admission to the program is considered conditional until candidate completes the remaining requirements as indicated in the conditional acceptance letter. An alternate list will be used to accommodate cancellations. Admissions will remain open until the class is filled.

Additional program application information can be found at: https://health.dixie.edu/surgical-technology/program-admissions/.

Required Prerequisite Courses

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOL 2320 &amp; BIOL 2325</td>
<td>Human Anatomy and Human Anatomy Lab</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 2420 &amp; BIOL 2425</td>
<td>Human Physiology and Human Physiology Lab</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1010 or ENGL 1010D</td>
<td>Introduction to Writing (EN)</td>
<td>3-4</td>
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<tr>
<td>ENGL 2010</td>
<td>Interm Writing Selected Topics: (EN)</td>
<td>3</td>
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<tr>
<td>HLOC 1000</td>
<td>Medical Terminology</td>
<td>2</td>
</tr>
<tr>
<td>MATH 1040 or MATH 1030 or MATH 1050</td>
<td>Introduction to Statistics (MA) (preferred)</td>
<td>3-4</td>
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<tr>
<td>PSY 1010 or PSY 1100 or FSHD 1500</td>
<td>General Psychology (SS, GC)</td>
<td>3</td>
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<td>Human Development Through Lifespan (SS, GC)</td>
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<td>Human Development Lifespan (SS, GC)</td>
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1 Grade of C or higher in prerequisite courses required.

Surgical Technology Program Learning Outcomes (to support DSU Institutional Learning Outcomes)

Dixie State University Surgical Technology Program Graduates will be able to:

PLO 1.1 Skills: Perform surgical technology roles and duties competently and safely at entry-level for employment.

PLO 2.1 Knowledge: Apply fundamental theoretical knowledge effectively in the practice of surgical technology.

PLO 2.2 Knowledge: Acquire and evaluate emerging surgical knowledge to support innovations in surgical practice.

PLO 4.1 Responsibility: Exhibit professional behaviors consistently to obtain and maintain employment.

PLO 5.1 Grit: Demonstrate competence and safe practice under pressure in demanding surgical situations.

PLO 5.2 Grit: Adapt to unexpected circumstances in surgery efficiently to facilitate safe patient care.
Career Information

Surgical technologists work as members of a healthcare team alongside physicians and surgeons, registered nurses, and other healthcare workers. Before an operation, surgical technologists prepare the operating room by setting up surgical instruments and equipment. During an operation, surgical technologists pass instruments and supplies to surgeons and first assistants. They also hold retractors, hold internal organs in place during the procedure, or set up robotic surgical equipment. Over 70% of surgical technologists are employed in hospitals and may work or be on call during nights, weekends, and holidays. They may also be required to work shifts lasting longer than 8 hours.

Job Outlook*

Employment of surgical technologists is projected to grow 12 percent from 2016 to 2026, faster than the average for all occupations. Advances in medical technology have made surgery safer, and more operations are being done to treat a variety of illnesses and injuries.

Salary Range*

The median annual wage for surgical technologists was $45,160 in May 2016. The lowest 10 percent earned less than $31,720, and the highest 10 percent earned more than $64,800.


Courses

SURG 1000. Introduction to Surgical Technology. 2 Hours.
First semester course. Students will be introduced to the profession of surgical technology. Students will acquire knowledge of professional requirements and expectations, scope of practice, the surgical team, hospital and health delivery systems, the physical environment of surgery, hazards and safety practices, ethical and legal aspects, risk management, credentialing, and professional organizations. Students will gain an understanding of various roles for surgical technologists, and specific tasks required to deliver surgical patient care before, during, and after a surgical procedure. Taught in cohort rotation. Prerequisite: Acceptance into the Surgical Technology program. FA.

SURG 1021. Surgical Sciences. 3 Hours.
First semester course. Foundational concepts of surgical microbiology and pathophysiology are introduced. Emphasis is placed on surgical applications of microbiology and pathophysiology including surgical infection control, diagnosis of diseases and disorders of human body systems, and identification of surgical interventions for specified pathophysiologic conditions. Students apply basic medical terminology to develop fluency in surgical terminology. Taught in cohort rotation. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Communicate effectively and fluently utilizing surgical terminology. 2. Explain principles of microbiology relating to surgical infection control and surgical practice. 3. Identify diagnostic tests and surgical interventions for pathophysiologic conditions of human body systems. 4. Access and evaluate resources to obtain current information on surgical microbiology, and surgical diagnosis and treatment of pathophysiologic conditions of human body systems. Prerequisite: Acceptance into the Surgical Technology program. FA.

SURG 1050. Surgical Technology Theory. 3 Hours.
First semester course. Introduction to fundamentals of the surgical environment, including principles and applications of sterile technique, sterilization principles and practices, safety practices in the OR, handling and safety of specialized equipment, and introduction to surgical case management. Taught in cohort rotation. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Explain principles and applications of sterile technique. 2. Identify methods and parameters for sterilization of surgical items. 3. Discuss use and safety for surgical supplies, instruments and equipment. 4. Explain aspects of surgical case management including definitions, indications, anatomy, and procedure sequence for selected surgical interventions. Prerequisite: Acceptance into the Surgical Technology program. FA.

SURG 1055. Surgical Technology Lab I. 2 Hours.
First semester course. Students learn, practice, and demonstrate entry-level surgical technology skills such as scrubbing, donning, and gloving, aseptic technique, instrument identification, preparation of the sterile field, safe sharps handling, procedure steps anticipation, and professional behaviors. Taught in cohort rotation. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Satisfactorily perform the roles and functions of the ST at the introductory level. 2. Demonstrate sterile techniques and sterile conscience necessary to prevent surgical site infections. 3. Identify and safely handle surgical instruments and supplies. 4. Demonstrate professional behaviors expected of surgical technologists. Course fee required. Prerequisite: Acceptance into the Surgical Technology program. FA.
**SURG 1060. Surgical Technology Clinical I. 4 Hours.**
First semester course. Students correlate theory to practice in an actual surgical setting. Students apply previously learned foundational information and hands on skills as they perform in the first scrub role in assigned surgical procedures under the supervision of clinical site preceptors. An emphasis is placed on developing competence in basic surgical procedures in various surgical specialties. Taught in cohort rotation. **COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Demonstrate employment level surgical technology skills in the scrub role for surgical procedures as assigned at the clinical site with an emphasis on increasingly more complicated procedures. 2. Effectively and safely manipulate surgical equipment, instruments, and supplies. 3. Consistently maintain aseptic technique, demonstrating the application of a strong sterile conscience. 4. Correlate foundational information with safe clinical practice. 5. Demonstrate increasingly higher order analysis, problem solving and critical thinking skills in surgical technology practice. 6. Demonstrate appropriate and effective communication skills. 7. Collaborate with other members of the operating room team in providing safe surgical patient care. 8. Practice the legal, ethical and professional responsibilities of the surgical technologist. 9. Demonstrate the ability to maintain a stable emotional state, even under stressful conditions, which will enable the effective use of reason and good judgment in patient care situations. Prerequisite: Acceptance into the Surgical Technology program. FA.

**SURG 2070. Surgical Synthesis. 1 Hour.**
Second semester course. Students analyze the clinical experience by maintaining accurate documentation of case experiences and presenting case studies. Students correlate clinical experiences to surgical technology theory to prepare for the National Board Certification Examination. Taught in cohort rotation. **COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Correlate theory and clinical surgical experiences. 2. Analyze surgical experiences to increase competence. 3. Prepare for certification examination and employment. Prerequisite: Acceptance into the Surgical Technology program. SP.

**SURG 2060. Surgical Technology Clinical II. 7 Hours.**
Second semester course. Students correlate theory to practice in an actual surgical setting. Students apply previously learned foundational information and skills as they perform in the first scrub role in assigned surgical procedures under the supervision of clinical preceptors. An emphasis is placed on developing competence in more complex surgical procedures in various surgical specialties. Taught in cohort rotation. **COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Demonstrate employment level surgical technology skills in the scrub role for surgical procedures as assigned at the clinical site with an emphasis on increasingly more complicated procedures. 2. Effectively and safely manipulate surgical equipment, instruments, and supplies. 3. Consistently maintain aseptic technique, demonstrating the application of a strong sterile conscience. 4. Correlate foundational information with safe clinical practice. 5. Demonstrate increasingly higher order analysis, problem solving and critical thinking skills in surgical technology practice. 6. Demonstrate appropriate and effective communication skills. 7. Collaborate with other members of the operating room team in providing safe surgical patient care. 8. Practice the legal, ethical and professional responsibilities of the surgical technologist. 9. Demonstrate the ability to maintain a stable emotional state, even under stressful conditions, which will enable the effective use of reason and good judgment in patient care situations. Prerequisite: Acceptance into the Surgical Technology program. FA.

**SURG 2050. Surgical Procedures. 7 Hours.**
Second semester course. Students gain information necessary for safe medication practice in surgery. Students attain competence in the metric system, medication calculations, fundamental concepts of pharmacology, medication identification and handling, medications used in surgery and at the surgical site, and aspects of anesthesia. Taught in cohort rotation. **COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Calculate metric equivalents for surgical and medication applications. 2. Utilize medication resources to obtain current information on surgical medications. 3. Organize medication information using a framework of basic pharmacology principles. 4. Discuss aspects of safe medication administration. 5. Apply principles of pharmacology including agents, categories, and purposes to medications used in surgery. 6. Describe preoperative, intraoperative, and emergency anesthesia concepts. Prerequisite: Acceptance into the Surgical Technology program. FA.

**SURG 2055. Surgical Technology Lab II. 1 Hour.**
Second semester course. Students learn, practice, and demonstrate intermediate level surgical technology skills with an emphasis on anticipation skills, surgical specialty instrumentation, and professional behaviors. Students also develop critical thinking competence in aseptic practice by identifying, analyzing, and correcting errors in sterile technique. Taught in cohort rotation. **COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Satisfactorily perform the roles and functions of the ST at employment entry-level. 2. Demonstrate sterile techniques and sterile conscience necessary to prevent surgical site infections. 3. Identify and safely handle specialty surgical instruments and supplies. 4. Demonstrate professional behaviors expected of surgical technologists. Course fees required. Prerequisite: Acceptance into the Surgical Technology program. SP.

**SURG 1050. Surgical Technology Clinical I. 4 Hours.**
First semester course. Students correlate theory to practice in an actual surgical setting. Students apply previously learned foundational information and hands on skills as they perform in the first scrub role in assigned surgical procedures under the supervision of clinical site preceptors. An emphasis is placed on developing competence in basic surgical procedures in various surgical specialties. Taught in cohort rotation. **COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Demonstrate employment level surgical technology skills in the scrub role for surgical procedures as assigned at the clinical site with an emphasis on increasingly more complicated procedures. 2. Effectively and safely manipulate surgical equipment, instruments, and supplies. 3. Consistently maintain aseptic technique, demonstrating the application of a strong sterile conscience. 4. Correlate foundational information with safe clinical practice. 5. Demonstrate increasingly higher order analysis, problem solving and critical thinking skills in surgical technology practice. 6. Demonstrate appropriate and effective communication skills. 7. Collaborate with other members of the operating room team in providing safe surgical patient care. 8. Practice the legal, ethical and professional responsibilities of the surgical technologist. 9. Demonstrate the ability to maintain a stable emotional state, even under stressful conditions, which will enable the effective use of reason and good judgment in patient care situations. Prerequisite: Acceptance into the Surgical Technology program. FA.

**SURG 2040. Surgical Technology Clinical II. 7 Hours.**
Second semester course. Students correlate theory to practice in an actual surgical setting. Students apply previously learned foundational information and skills as they perform in the first scrub role in assigned surgical procedures under the supervision of clinical preceptors. An emphasis is placed on developing competence in more complex surgical procedures in various surgical specialties. Taught in cohort rotation. **COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Demonstrate employment level surgical technology skills in the scrub role for surgical procedures as assigned at the clinical site with an emphasis on increasingly more complicated procedures. 2. Effectively and safely manipulate surgical equipment, instruments, and supplies. 3. Consistently maintain aseptic technique, demonstrating the application of a strong sterile conscience. 4. Correlate foundational information with safe clinical practice. 5. Demonstrate increasingly higher order analysis, problem solving and critical thinking skills in surgical technology practice. 6. Demonstrate appropriate and effective communication skills. 7. Collaborate with other members of the operating room team in providing safe surgical patient care. 8. Practice the legal, ethical and professional responsibilities of the surgical technologist. 9. Demonstrate the ability to maintain a stable emotional state, even under stressful conditions, which will enable the effective use of reason and good judgment in patient care situations. Prerequisite: Acceptance into the Surgical Technology program. SP.

**SURG 2030. Surgical Technology Lab I. 1 Hour.**
Second semester course. Students learn, practice, and demonstrate intermediate level surgical technology skills with an emphasis on anticipation skills, surgical specialty instrumentation, and professional behaviors. Students also develop critical thinking competence in aseptic practice by identifying, analyzing, and correcting errors in sterile technique. Taught in cohort rotation. **COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Satisfactorily perform the roles and functions of the ST at employment entry-level. 2. Demonstrate sterile techniques and sterile conscience necessary to prevent surgical site infections. 3. Identify and safely handle specialty surgical instruments and supplies. 4. Demonstrate professional behaviors expected of surgical technologists. Course fees required. Prerequisite: Acceptance into the Surgical Technology program. SP.