

Surgical Technology

67-credit Associate of Applied Science Degree

About the Program

Prepare for a career as a surgical technician by developing knowledge in human anatomy, microbiology, and medical terminology, and learning to identify and handle surgical instruments and equipment. Students will also spend time in a hospital operating room to apply knowledge and skills under actual surgical conditions. Graduates of this program will be able to prepare an operating room for surgery, help with patient care, secure supplies, set up equipment and instruments for the surgical team and handle instruments during surgery.

The skills acquired are also valuable in ambulatory surgery centers, endoscopy rooms, emergency departments and labor and delivery departments.

Graduates of WCTC's program are eligible to take the national certification exam through the National Board of Surgical Technology and Surgical Assisting (NBSTSA). The Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) on the recommendation of the Accreditation Review Committee for Surgical Technology.

Potential Job Titles

- Surgical Technologist
- Surgical Tech I

Credit Transfer

Credits earned in the Surgical Technology program may be transferable to institutions offering baccalaureate degrees. Visit www.wctc.edu/transfer for specific information. Since the details of credit transfers change from time to time, be sure to contact the intended college or university to verify credit transferability.

Admission Process

- Fill out a WCTC application
- Send \$30 non-refundable application fee
- View online informational meeting
- Send high school transcript or GED/HSED
- Send any previous college transcripts
- Complete Skills Assessment test (COMPASS)
- Schedule a Program Planning Session (PPS) with program counselor
- Begin pursuing Financial Aid options

For more information, call 262.691.5200.

Required General Education Courses Credits

501-101	Medical Terminology	3+
801-195	Written Communication	3+
801-196	Oral/Interpersonal Communication	3+
806-177	Gen Anatomy & Physiology	4
806-179	Advanced Anatomy & Physiology	4
806-197	Microbiology	4+
809-196	Introduction to Sociology	3+
809-199	Psychology of Human Relations	3
	Elective	3

Total semester credits 30

Note: General Education Coursework must be completed or "in-progress" before petitioning into Core/Clinical Coursework. When transferring a required science course from another college, the course will only be accepted if the grade meets the identified grade requirement of the transferring college's surgical technology program.

Required Courses Credits

First Semester

512-125	Intro to Surgical Technology	4
512-126	Surgical Tech Fundamentals I	4
512-127	Exploring Surgical Issues	2

Total semester credits 10

Second Semester

512-128	Surgical Tech Fundamentals II	4
512-129	Surgical Pharmacology	2
512-130	Surgical Skills Application	2

Total semester credits 8

Third Semester

512-131	Surgical Interventions I	4
512-132	Surgical Technology Clinical I	3
512-133	Surgical Technology Clinical II	3

Total semester credits 10

Fourth Semester

512-134	Surgical Interventions II	3
512-135	Surgical Technology Clinical III	3
512-136	Surgical Technology Clinical IV	3

Total semester credits 9

+ Proficiency exam available

A grade point of 2.0 (C) or better is required in all courses to complete the program. Curriculum is current as of catalog printing. The most current curriculum requirements for graduation will be provided upon admission to program, or review at www.wctc.edu.

Surgical Technology Required Course**501-101 Medical Terminology** 3

Develop an understanding of medical terminology by breaking related words into prefixes, root words, and suffixes. Practice the formation, analysis, and reconstruction of terms, and learn correct spellings, definitions, and pronunciations. Become familiar with the operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as systemic and surgical terminology.

512-125 Intro to Surgical Technology 4

Provides the foundational knowledge of the occupational environment. Principles of sterilization and disinfection are learned. Surgical instruments are introduced. Preoperative patient care concepts are simulated. Lab practice is included. Prerequisites: 806-177 Gen Anatomy & Physiology and 501-101 Medical Terminology (or concurrent)

512-126 Surgical Tech Fundamentals 1 4

Focus on preparing the patient and operating room for surgery. Principles of sterile technique are emphasized as the student moves into the scrub role. Lab practice is included. Provides the foundational knowledge of the occupational environment. Principles of sterilization and disinfection are learned. Surgical instruments are introduced. Preoperative patient care concepts are simulated. Lab practice is included. Prerequisites: 806-177 Gen Anatomy & Physiology and 501-101 Medical Terminology (or concurrent) and 512-125 Intro to Surgical Technology (or concurrent)

512-127 Exploring Surgical Issues 2

Explore a variety of issues related to surgical technology. Emphasis is placed on becoming a professional member of the surgical team. Prerequisites: 512-125 Intro to Surgical Technology (or concurrent) and 512-126 Surgical Tech Fundamentals 1 (or concurrent)

512-128 Surgical Tech Fundamentals 2 4

Focus on enhancing surgical technology skills while functioning as a sterile team member. Lab and/or clinical practice is included. Prerequisites: 512-126 Surgical Tech Fundamentals 1 and 501-101 Medical Terminology and 512-125 Intro to Surgical Technology and 806-179 Adv Anatomy & Physiology (or concurrent) and 806-197 Microbiology (or concurrent) and 512-129 Surgical Pharmacology (or concurrent) and 512-127 Exploring Surgical Issues (or concurrent)

512-129 Surgical Pharmacology 2

Basic study of drug classifications, care, and handling of drugs and solutions, application of mathematical principles in dosage calculations, terminology related to pharmacology, anesthesia, and drugs used in surgery. Prerequisites: 512-125 Intro to Surgical Technology (or concurrent) and 512-126 Surgical Tech Fundamentals 1 (or concurrent)

512-130 Surgical Skills Application 2

Provides a transition from the academic to the clinical setting. Integrate the surgical technologist skills as they apply to various surgical procedures. Prerequisites: 512-125 Intro to Surgical Technology and 512-126 Surgical Tech Fundamentals 1 and 512-128 Surgical Tech Fundamentals 2 (or concurrent) and 512-129 Surgical Pharmacology (or concurrent)

512-131 Surgical Interventions 1 4

Provides the foundational knowledge of surgical core and specialty procedures. Examine the pathophysiology, diagnostic interventions, health sciences, and surgical techniques for a variety of procedures. Prerequisites: 512-128 Surgical Tech Fundamentals 2 and 512-130 Surgical Skills Application

512-132 Surgical Technology Clinical 1 3

Apply basic surgical theories, principles, and procedural techniques in the operating room. Function as team members under the guidance of the instructor and authorized clinical personnel. Prerequisites: 512-128 Surgical Tech Fundamentals 2 and 512-130 Surgical Skills Application

512-133 Surgical Technology Clinical 2 3

Further experience in a clinical setting allows the student to continue to improve technical skills while accepting more responsibilities during surgical procedures. Prerequisites: 512-132 Surgical Technology Clinical 1; and 512-131 Surgical Interventions 1; or 512-140 and 512-141

512-134 Surgical Interventions 2 3

Expand knowledge of core and specialty surgical procedures by incorporating pathophysiology, diagnostic interventions, health sciences, and surgical techniques. Prerequisites: 512-131 Surgical Interventions 1; or 512-140 and 512-141; and 512-133 Surgical Technology Clinical 2; or 512-137 and 512-138

512-135 Surgical Technology Clinical 3 3

Further experience in a clinical setting allows the student to continue to improve technical skills while accepting more responsibilities during surgical procedures. Prerequisites: 512-133 Surgical Technology Clinical 2; and 512-131 Surgical Interventions 1; or 512-140 and 512-141

512-136 Surgical Technology Clinical 4 3

Function relatively independently. This course serves as a transition from a student perspective to an employee by utilizing advanced skills for an entry level Surgical Technologist. Prerequisites: 512-135 Surgical Technology Clinical 3 and 512-134 Surgical Interventions 2 (or concurrent)

801-195 Written Communication 3

Study and practice the transfer of information, ideas, and experiences in written form through reports, letters, memoranda, and other documents. Gain proficiency in the areas of organization, clarity, accuracy, and directness. Prerequisites: COMPASS-Writing Skills or ACT-English or ASSET-Writing Skills or Accuplacer Sentence Skills or TABE Advanced Language or 831-103 Intro to College Writing or 851-771 Writing-Program Readiness

801-196 Oral/Interpersonal Comm 3

Practice the necessary skills for effective speech delivery, listening, assertiveness, conflict resolution, teamwork, and general interpersonal communication.

806-177 Gen Anatomy & Physiology 4

Examine basic concepts of human anatomy and physiology as they relate to the health sciences. Use a body systems approach to discover the interrelationships between structure and function at the gross and microscopic levels of organization in the entire human body. Develop the ability as a health care professional to apply the basic concepts of whole body anatomy and physiology to decision making and professional communication with colleagues and patients. Prerequisites: 806-124 Introduction to Chemistry or 806-178 Life Science Chemistry or High School chemistry or College Chemistry; and COMPASS-Reading Skills or 858-775 Reading-Program Readiness or 838-105 Intro Reading & Study Skills or TABE Advanced Reading or Accuplacer Reading Comprehension or College Proficiency - Reading or Grandfathered Rdg Requirement or ACT-Reading

806-179 Adv Anatomy & Physiology 4

Use a body systems approach to study normal human anatomy and physiology and the interrelationships between form and function at the gross and microscopic levels of organization. During lab exercises, analyze cellular metabolism and explore the individual components of the nervous, neuro-muscular, cardiovascular, and urinary body systems. Examine homeostatic mechanisms and their relationship to fluid, electrolyte, acid-base balance, and blood. Apply genetic concepts to human reproduction and development. Prerequisites: 806-177 Gen Anatomy & Physiology or 806-131 Anatomy and Physiology

806-197 Microbiology 4

Examine various concepts in microbiology such as microbial structure, metabolism, genetics, and growth. Investigate the relationship that exists between humans and microorganisms. Discuss additional topics such as disease production, epidemiology, host defense mechanisms, and the medical impact of microbes. Explore the role of microbes in the environment, industry, and biotechnology. Prerequisites: 806-177 Gen Anatomy & Physiology; or 806-195 Anatomy and Physiology I; or 806-131 Anatomy and Physiology; and COMPASS-Reading Skills or 858-775 Reading - Program Readiness or 838-105 Intro Reading & Study Skills or TABE Advanced Reading or Accuplacer Reading Comprehension or College Proficiency - Reading or Grandfathered Rdg Requirement or ACT-Reading

809-196 Introduction to Sociology 3

Learn the basic concepts of sociology: culture, socialization, social stratification, multiculturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. Prerequisites: COMPASS-Reading Skills or 858-775 Reading - Program Readiness or 838-105 Intro Reading & Study Skills or TABE Advanced Reading or Accuplacer Reading Comprehension or College Proficiency - Reading or Grandfathered Rdg Requirement or ACT-Reading

809-199 Psychology of Human Relations 3

Examine the principles of interaction as applied to human relations at home and on the job. Explore topics such as, self concept personality development, learning, motivation, emotions, stress, human relations processes, and special relationships. Prerequisites: COMPASS-Reading Skills or 858-775 Reading - Program Readiness or 838-105 Intro Reading & Study Skills or TABE Advanced Reading or Accuplacer Reading Comprehension or College Proficiency - Reading or Grandfathered Rdg Requirement or ACT-Reading

Elective Options

Any course at the associate degree level will meet the elective requirement.