Surgical Technology

50-512-1 Apprenticeship | 10-512-1 (Associate Degree) **Financial Aid Eligible (Associate Degree)**

Campus: New Richmond

Combination of Online, Hybrid and On-Site (For Apprenticeship Work Location) instruction

Program Overview

Surgical technologists are health professionals who are an integral part of the team of medical practitioners providing surgical care to patients in a variety of settings.

The surgical technologist works under medical supervision to facilitate the safe and effective conduct of invasive surgical procedures. This individual works under the supervision of a surgeon to ensure that the operating room or environment is safe, that equipment functions properly, and that the operative procedure is conducted under conditions that maximize patient safety.

A surgical technologist possesses expertise in the theory and application of sterile and aseptic technique and combines the knowledge of human anatomy, surgical procedures, and implementation tools and technologies to facilitate a physician's performance of invasive therapeutic and diagnostic procedures.

Associate degree graduates# may be eligible to take a national certification exam through the National Board of Surgical Technology and Surgical Assisting (NBSTSA).

Special Features
- This is an associate degree-aligned apprenticeship
- 2 year program
- 4,400 hours on-the-job training
- 3,584 hours of on-the-job training
- 816 hours of required paid related instruction
- Wage scale of apprentice systematically increases throughout the apprenticeship
- Only students enrolled in the Surgical Technology apprenticeship program can apply to Northwood Tech's Surgical Technology associate degree program.

For more details on apprenticeships, please refer to page 28

Minimum Qualifications Required By the Bureau of Apprenticeship Standards

All applicants, including applicants eligible for direct entry, must meet the following minimum requirements for each occupation sponsored:

- Be a U.S. citizen or eligible non-citizen who is authorized to work in the U.S., as long as they meet the qualifications and requirements for enrollment into a particular program and are not required by law, regulation, or government contract to be a U.S. citizen
- Be at least 18 years of age
- Be fully able to perform the work of the occupation without hazard to themselves or others with reasonable accommodations, if needed
- Have a high school diploma or equivalency
- Have reliable transportation to the employer, job site, and related instruction

Inquire
Contact, Eric Lockwood, Director, Apprenticeships and Academies, 715.246.1871, eric.lockwood@NorthwoodTech.edu

How to Get Started
To become an apprentice in the state of Wisconsin, one must first be indentured by the State Bureau of Apprenticeships Standards (BAS).

- Contact an employer on your own.
- Once you have an employer/sponsor, contact the Bureau of Apprenticeship Standards, to initiate the application process between you and your employer.

Apprenticeship Admission Requirements

- Complete the Northwood Tech application form
  > Please contact Michelle Marshall at michelle.marshall@northwoodtech.edu or 715.246.1877 to obtain a Northwood Tech application.
  > Note: Prior to applying to Northwood Tech, students are also required to submit an application to the Bureau of

Apprenticeship Standards (Eau Claire Office). The contact for the Bureau of Apprenticeship Standards is Mackenzie Webster, Apprenticeship Training Representative: Emerging Industries, at mackenzie.webster@dwd.wisconsin.gov, 715.512.0997

Program-Specific Requirements

- Confirmation of admission from Northwood Tech Academic Affairs Apprenticeship Office

Associate Degree Admission Requirements

Note: To become a Certified Surgical Technologist, students must have a minimum of an associate degree and pass the national certification exam. Only students enrolled in the Surgical Technology Apprenticeship program can apply to Northwood Tech's Surgical Technology associate degree program. To become admitted in this program, see below:

- Complete online application form
- Confirmation of admission to the Surgical Tech Apprenticeship program from Northwood Tech Academic Affairs Apprenticeship Office
- Have earned a high school diploma or GED certificate
- Review and sign Background Check Disclosure
- Review and sign Functional Abilities Disclosure
- Complete admissions meeting with a Northwood Tech counselor (academic admission requirements apply)

Program-Specific Requirements

- Submit Background Check Fee
- Have acceptable results based on the Wisconsin Caregiver Background Check and/or other states (if applicable)
- Student must meet employer health record requirements/policies
- Review and sign Health Sciences Confidentiality Statement
- Possess current certification of "BLS Basic Life Support"
- Participate in a mandatory session scheduled prior to the start of classes.

Program Outcomes
Surgical Technology graduates will be able to:
- Apply healthcare and technological science principles to the perioperative environment
- Maintain principles of sterile technique in the surgical environment
- Provide a safe, efficient, and supportive environment for the patient
- Prepare the patient, operating room and surgical team for the preoperative phase
- Perform intraoperative case management in the scrub role
- Perform postoperative case management
- Function as an ethical, legal, and professional member of the healthcare team as determined by governing bodies

To prepare entry-level surgical technologists who are competent in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains to enter the profession.

Career Outlook

Typical positions available after graduation include:

- Surgical Technologist (CST)
- Surgical First Assistant (after additional training and education)
- Central Supply Technician
- Central Sterile Processing Technician
- Endoscopy/Laser Technician
- Tissue/Organ Procurement

Required Courses

Number	Course Title	Credits (cr.)
Program Courses		
10501101	Medical Terminology	3 cr.
10512125	Intro to Surgical Technology*	4 cr.
10512126	Surgical Tech Fundamentals 1*	4 cr.
10512127	Exploring Surgical Issues*	2 cr.
10512128	Surgical Tech Fundamentals 2*	4 cr.
10512129	Surgical Pharmacology*	2 cr.
10512130	Surgical Skills Application*^	2 cr.
10512131	Surgical Interventions 1*^	4 cr.
10512132	Surgical Technology Clinical 1*^	3 cr.
10512133	Surgical Technology Clinical 2*^	3 cr.
10512135	Surgical Technology Clinical 3*^	3 cr.
10512136	Surgical Technology Clinical 4*^	3 cr.
10512142	Surgical Interventions II*^	4 cr.
Program Courses Total		41 cr.

Number	Course Title	Credits (cr.)
General Education Courses**		
10801136	English Composition 1	3 cr.
10801196	Oral/Interpersonal Communication	3 cr.
10806177	General Anatomy and Physiology	4 cr.
10806179	Advanced Anatomy and Physiology*^	4 cr.
10806197	Microbiology*^	4 cr.
10809172	Introduction to Diversity Studies	3 cr.
10809198	Introduction to Psychology	3 cr.
General Education Courses Total		24 cr.

TOTAL CREDITS		**65 cr.**

* Requires a prerequisite and/or corequisite that must be completed with a grade point of 2.0 or better.
^ Credit for Prior Learning will not be allowed for this course
You must earn a grade point of 2.0 or better in all required courses.
Course repeat policies exist that allow for only a certain number of retakes within this program; please refer to the policies for details
** See pages 38-41 for course descriptions.

#Northwood Tech is seeking accreditation from the Commission on Accreditation of Allied Health Education Programs (CAAHEP) who accredits programs upon the recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA). Graduates of an accredited program are eligible to sit for the national certification exam. After successful completion of this exam, the individual will be a certified surgical technologist. Note that a felony conviction may affect a graduate's eligibility for certification.

The Surgical Technology program is supported with funds from the Wisconsin Department of Health Services: Allied Health Professional Education and Training Grant ($177,156)

10515101
Medical Terminology - Credits: 3
Focuses on the component parts of medical terms: prefixes, suffixes and word roots. Students practice formation, analysis and reconstruction of terms. Emphasis on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology.

10512125
Intro to Surgical Technology - Credits: 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: 10806177 General Anatomy and Physiology, 10501101 Medical Terminology

10512126
Surgical Tech Fundamentals 1 - Credits: 4
Focuses 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. PREREQUISITES: 10806177 General Anatomy and Physiology, 10501101 Medical Terminology, COREQUISITE: 10512125 Intro to Surgical Technology

10512127
Exploring Surgical Issues - Credits: 2
Explores a variety of issues related to surgical technology. Emphasis is placed is on becoming a professional member of the surgical team. COREQUISITES: 10512125 Intro to Surgical Technology, 10512126 Surgical Tech Fundamentals 1

10512128
Surgical Tech Fundamentals 2 - Credits: 4
Focuses on enhancing surgical technology skills while functioning as a sterile team member. Lab is included. PREREQUISITES: 10512125 Intro to Surgical Technology, 10512126 Surgical Tech Fundamentals 1, 10512127 Exploring Surgical Issues, 10806197 Microbiology, 10501101 Medical Terminology and COREQUISITE: 10512129 Surgical Pharmacology

10512129
Surgical Pharmacology - Credits: 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: 10512125 Intro to Surgical Technology, 10512126 Surgical Tech Fundamentals 1

10512130
Surgical Skills Application - Credits: 2
Provides a transition from the academic to the clinical setting. Learners integrate the surgical technologist skills as they apply to various surgical procedures. PREREQUISITES: 10512125 Intro to Surgical Technology, 10512126 Surgical Tech Fundamentals 1, and COREQUISITES: 10512128 Surgical Tech Fundamentals 2, 10512129 Surgical Pharmacology

10512131
Surgical Interventions 1 - Credits: 4
Provides the foundational knowledge of surgical core and specialty procedures. Examines the pathophysiology, diagnostic interventions, health sciences, and surgical techniques for a variety of procedures. PREREQUISITES: 10512128 Surgical Tech Fundamentals 2, 10512130 Surgical Skills Application

10512132
Surgical Technology Clinical 1 - Credits: 3
Apply basic surgical theories, principles, and procedural techniques in the operating room. Students begin to function as team members under the guidance of the instructor and authorized clinical personnel. PREREQUISITES: 10512128 Surgical Tech Fundamentals 2, 10512130 Surgical Skills Application

10512133
Surgical Technology Clinical 2 - Credits: 3
Further experience in a clinical setting allows the student to continue to improve technical skills while accepting more responsibilities during surgical procedures. COREQUISITES: 10512131 Surgical Interventions 1, 10512132 Surgical Technology Clinical 1

10512135
Surgical Technology Clinical 3 - Credits: 3
Further experience in a clinical setting allows the student to continue to improve technical skills while accepting more responsibilities during surgical procedures. PREREQUISITES: 10512131 Surgical Interventions 1, 10512133 Surgical Technology Clinical 2

10512136
Surgical Technology Clinical 4 - Credits: 3
During this clinical course the student will function relatively independently. Serves as a transition from a student perspective to an employee by utilizing advanced skills for an entry level Surgical Technologist. COREQUISITES: 10512135 Surgical Technology Clinical 3, 10512142 Surgical Interventions II

10512142
Surgical Interventions II - Credits: 4
Expands knowledge of core and specialty surgical procedures by incorporating pathophysiology, diagnostic interventions, health sciences, and surgical techniques. PREREQUISITES: 10512131 Surgical Interventions 1, 10512133 Surgical Technology Clinical 2