

Surgical Technologist

Program Number: 31-512-1

One-Year Technical Diploma

Health-Related Professions Program Cluster

School of Health Education

Program offered at Madison Campuses

For information call: (608) 246-6065, (608) 246-6280 or
(800) 322-6282 Ext. 6065 or 6280

About the Program

The Surgical Technologist Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in cooperation with the Accreditation Review Committee (ARC) on Education in Surgical Technology. ARC is sponsored by the Association of Surgical Technologists, the American College of Surgeons and the American Hospital Association.

Graduates of the program are prepared to function as members of a surgical team. Surgical technologists are allied 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 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 of tools and technologies to facilitate a physician's performance of invasive therapeutic and diagnostic procedures.

Opportunities may exist to accept a limited number of transfer students into the fall and spring semesters of the program. Individuals interested in this option should call the Center office and schedule an appointment to discuss their particular situation.

Application Process

To apply to the program, students must submit a complete application packet including application, all transcripts and testing scores. Please see the [Admission Information & Next Steps](#) link for more specific details.

Curriculum

The courses listed below outline the requirements for graduation for students entering this program in the 2012-2013 academic year. Requirements for graduation may vary depending on the semester in which a student is admitted to their program.

Current/continuing students should consult their degree progress report available through their student center account for specific graduation requirements. Program requirements are subject to change.

		Hrs/week	
		Credits	Lec-Lab
Pre-Surgical Technologist courses:			
10-806-177	General Anatomy & Physiology* OR	4	5-4
20-806-206	General Anatomy & Physiology* OR	(4)	5-4
20-806-208	Anatomy & Physiology I & II*	(8)	(6-4)
10-501-101	Medical Terminology*	3	3-0
10-801-195	Written Communication* OR	(3)	(3-0)
20-801-201	English 1* OR	(3)	(3-0)
10-801-196	Oral/Interpersonal Communication *	3	3-0
31-512-317	Online ST Microbiology**	1	2.5-0
Semester Total		11	

First Semester

31-512-327	ST Introduction to Surgical Technology (1 st 9 wks)	4	8-0
31-512-328	ST Fundamentals 1 (1 st 9 wks)	4	8-0
31-512-329	ST Fundamentals 2 (2 nd 9 wks)	2	4-0
31-512-330	ST Clinical 1 (2 nd 9 wks)	3	0-16
Semester Total		13	

Second Semester

31-512-331	ST Surgical Procedures	4	9-0
31-512-332	ST Clinical 2	4	0-24
31-512-334	ST Clinical 3	4	0-24
Semester Total		12	

* Students may complete some or all of these requirements at Madison College or at another college prior to beginning the ST program courses. See Program Director for evaluation of transfer credits.

** Microbiology is open to students on the waiting list. There is also the college-transfer level Microbiology of 20-806-273 (4 credits) that can be taken instead of the listed course.

Students who are successful in this field:

- possess a strong sense of responsibility, considerable patience and concern for others;
- function well as a team member;
- possess manual dexterity and fine motor coordination; and
- perform accurately and efficiently under pressure.

Note: A copy of the Functional Abilities necessary to successfully complete the program of study is available on the web site.



Unique Requirements for Admission

- 1) High school graduation, HSED or GED; and
- 2) Satisfactory scores on the COMPASS, ASSET test or comparable substitute; and
- 3) Chemistry: Two semesters of high school chemistry with a lab component with a grade of C or better each semester; or a four-credit college-level chemistry course with a lab component (10-806-134, General Chemistry or a higher level course), with a grade of C or better; and
- 4) Algebra competency demonstrated (**within the last two years**) through either satisfactory competency test scores or a college algebra course, with a grade of C or better.

Program Requirements

- 1) Hepatitis B vaccine prior to beginning the program.
- 2) Physical exam and completed History Form on file prior to beginning the program.
- 3) Caregiver Background Check (CBC). For the most current information on the Caregiver Law, visit this website: www.dhfs.state.wi.us.
- 4) CPR certification (includes C level/Healthcare Provider and two-person rescue).

Additional Fees: Hepatitis B vaccine, parking fees at clinical sites, clinical shoes, personal protective eyewear.

Program Courses

Note: For the following courses, see course catalog or Madison College Website:

20-806-206	General Anatomy & Physiology	4 credits
20-806-207 & 208	Anatomy & Physiology I & II	8 credits
10-801-196	Oral/Interpersonal Communication	3 credits
10-510-101	Medical Terminology	3 credits
20-801-201	English 1	3credits
31-512-317	Online ST Microbiology	1 credit

31-512-317 Functional Microbiology 1 credit
Introduces general classification, structure and physiology of microorganisms. Students learn the relationship between microorganisms and the human host as well as microbes in the hospital environment. Examines the study of the disease process, transmission of disease and methods of controlling microbial growth. Reserved for Surgical Technologist waiting list students until open registration. Prerequisites: Medical Terminology (10-501-101) AND Pre-/Co-requisites: Body Structure & Function (10-501-153) or General A&P (20-806-206) or A&P I and II (20-806-207 & 208)

31-512-327 ST Introduction to Surgical Technology 4 credits
Provides the foundational knowledge of disinfection, sterilization, infection control, and asepsis. Examines weights and measures / metric system, pharmacology and anesthesia. Legal and ethical issues encountered in the healthcare environment are explored. Simulated laboratory practice enables the learner to develop beginning technical skills. Prerequisite: one year of high school math with a grade of C or better in each semester

31-512-328 ST Fundamentals 1 4 credits
Includes the basic clinical skills needed by the Surgical Technologist in the scrub role. Learners develop skills in identifying basic instrumentation, supplies, drains, catheters, dressings and sponges. Includes practice experience in creating a sterile field, draping, passing instruments and supplies, performing counts and preparing supplies.

31-512-329 ST Fundamentals 2 2 credits
Builds upon and reinforces the role of the Surgical Technologist as a member of the operating room team. Discusses care of the patient before, during and after surgery with emphasis on surgical wounds, wound closure materials, and vital signs. Includes lecture and lab experiences.

31-512-330 ST Clinical 1 3 credits
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.

31-512-331 ST Surgical Procedures 4 credits
Provides the foundational knowledge of surgical core and specialty procedures. Examines the pathophysiology, diagnostic interventions and surgical interventions for a variety of surgical procedures. Incorporates integration of basic health sciences and technical knowledge to complete a plan of action for a surgical procedure.

31-512-332 ST Clinical 2 4 credits
Further experience in a clinical setting allows the student to continue to improve technical skills while accepting more responsibilities during surgical procedures.

31-512-334 ST Clinical 3 4 credits
Enhances the student's technical experience and employee skills. Serves as a transition between student and employee. Application of advanced skills for the entry-level Surgical Technologist in the clinical setting.

Career Potential:

- Surgical Technologist In hospital operating rooms, ambulatory/day surgery units and obstetric/delivery units.
- OB Technician
- Private Scrub Technologist
- Second Assisting
- First Assisting Technologist
- GI Technician
- Laser/Endoscopic Technician
- Tissue/Organ Procurement
- Central Supply Technician
- Material Manager
- Claims Approver
- Surgical Sales Representative
- Vet Technician

Some of the occupations listed may require additional education.

More detailed and updated information on this program may be available at:

malcmadison.edu. The college reserves the right to make changes in the regulations and courses announced in this publication without notice.

Madison Area Technical College provides equal opportunity in education and employment.