**Technical Standards and Essential Functions**

The following essential functions outline reasonable expectations of a surgical technology student for the performance of common surgical technology functions. Students must be able to apply the knowledge and skills necessary to function in a variety of classroom, lab, and clinical situations while providing the essential competencies of surgical technology. These requirements are in place for successful completion of the surgical technology courses along with employment upon graduation. If after reviewing the essential functions, you feel you may not be able to complete one or more of these functions, contact SCC’s Academic Support Center for further assessment.

**Gross Motor Skills**

▪ Move within confined spaces

▪ Reach above shoulder

▪ Reach below waist

▪ Reach out front

 **Critical Thinking**

▪ Comprehends & follows instructions

▪ Identifies cause-effect relationships

▪ Follow process from start to finish

▪ Sequence information Physical Strength

▪ Push and pull 50 lbs.

▪ Support 50 lbs. of weight

▪ Lift 50 lbs.

▪ Carry equipment / supplies

▪ Use upper body strength (CPR)

▪ Squeeze with hands (fire extinguisher)

**Math**

▪ Comprehend and interpret graphic trends

▪ Tell time

▪ Measure time

▪ Read & interpret measurement marks

▪ Add, subtract, multiply, divide, and count

▪ Compute fractions and decimals

▪ Document numbers in records

**Fine Motor Skills**

▪ Pick up objects with hands

▪ Grasp small objects with hands

▪ Write with pen or pencil

▪ Key/type

▪ Pinch / pick / squeeze with fingers

▪ Twist

▪ Good eye hand & foot coordination

▪ Simultaneous hand wrist & finger movement

 **Analytical Thinking**

▪ Problem solving

▪ Transfer knowledge from one situation to another

▪ Process & interpret written & oral information from multiple sources

▪ Apply math concepts

▪ Analyze & interpret abstract and concrete data

▪ Prioritize Tasks (time management)

▪ Evaluates outcomes

▪ Use short & long-term memory

▪ Plan & Control activities Physical Endurance

▪ Stand up to several hours

▪ Sustain repetitive motions (CPR)

▪ Maintain same position for long period of time

▪ Function in a fast-paced environment Interpersonal

**Skills**

▪ Establish rapport with individuals (co-workers)

**Reading**

▪ Read and understand written documents

▪ Read digital displays, computer screens

**Vision**

▪ See objects up to 20 inches away (small needles)

▪ See objects up to 20 feet away

▪ Use depth perception

▪ Use peripheral vision

▪ Distinguish color and color intensity

▪ See in a darkened room

**Communication Skills**

▪ Exhibit & comprehend nonverbal cues

▪ Speaks English

▪ Writes English

▪ Reads English

▪ Understands English

▪ Listen & comprehend spoken / written word

▪ Collaborate with others

**Environment**

▪ Tolerate exposure to allergens, strong odors, soaps, warm/cool temperatures, safety equipment (goggles, masks, etc.), and work in confined environments for extended periods of time

**Tactile**

▪ Feel vibrations

▪ Feel differences in surface characteristics

▪ Feel differences in sizes & shapes

▪ Detect hot and cold temperatures

**Hearing**

▪ Hear and discriminate at speech normal conversational sound levels

▪ Hear faint voices

▪ Hear faint body sounds (shallow breathing)

▪ Ability to discriminate speech in noise. Hear in situations when not able to see (back turned, mask)

**Emotional Stability**

▪ Establish professional relationships

▪ Adapt to changing environments

▪ Deals with the unexpected

▪ Focus attention on task

▪ Accept feedback appropriately