|  |  |
| --- | --- |
| ST 222 | Course Syllabus  Mission Statement  SVSTI is committed to the success of our students by providing the curriculum and skills to pursue their goals of becoming active, sought after participants in the medical community. We are dedicated to helping students master communication skills, critical thinking, respect, accountability and personal responsibility. We support our students, educators, and our community by providing a safe environment, qualified graduates, and financially viable programs in the evolving field of medicine. |
| Course Information | **Course Title: Surgical Technology**  **Course Code**: ST222  **Semester Credit Hours (Units)**: 18 Credit Hours  **Lecture Hours:** 240 hours  **Lab Hours:** 192 hours  **Total Hours:** 432 hours  **Prerequisites:** High School Diploma or GED equivalent, SPD101, ST111 |
| Textbooks | |  | | --- | | [Surgical Instrumentation, 2e](https://www.cengage.com/c/surgical-instrumentation-2e-phillips) | | [Surgical Technology for the Surgical Technologist: A Positive Care Approach, 5e](https://www.cengage.com/c/surgical-technology-for-the-surgical-technologist-a-positive-care-approach-5e-association-of-surgical-technologists) | | [Ethics, Legal Issues and Professionalism in Surgical Technology, 1e](https://www.cengage.com/c/ethics-legal-issues-and-professionalism-in-surgical-technology-1e-jackson)  [Surgical Mayo Setups, 2e](https://www.cengage.com/c/surgical-mayo-setups-2e-allhoff)  Fundamental of Anatomy and Physiology, 4E  Medical Terminology for The Health Professions, 7e  Microbiology for Surgical Technologist, 2e | |
| Course Description | Hybrid Course; This course provides extensive study of the human body including basic chemistry, cells, tissues, membranes and organs; the integumentary, skeletal, muscular, sensory and nervous systems, circulatory, lymphatic, respiratory, digestive, endocrine, urinary and reproductive systems. This course also provides in-depth study of minimally invasive surgery (MIS) and Robotics. This course provides extensive study of the circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems. This course also provides in-depth study of surgical specialties (genitourinary, thoracic, cardiac, peripheral vascular, orthopedic, pediatric, and trauma)  Step by step procedures are presented as are instrumentation and anesthesia in these specialties. |
| Instructional Objectives | Your instructor will communicate the instructional objectives to you at each lesson or in your weekly assignment on Cengage.  This Program is the hands-on application of the concepts and theory studied in Cengage & MindTap. Students learn and apply the basic principles of aseptic technique, basic surgical sanitation, disinfection and sterilization. The focus will be on surgical instrumentation preparation and sterilization; proper technique for surgical hand scrub, gowning, gloving, sterile field set-up and maintenance. Identification of instrumentation by function and use; draping, equipment names and use, safety precautions, and introduction to surgical procedures. Demonstrate proficiency in intermediate surgical skills to include surgical case management, identify and correct sterility breaks, set up in appropriate time, and complete case in a logical sequence.  Intermediate surgical procedures; application of fundamental concepts of Surgical Technology, preparation of the patient in surgery, pre-op and post-op duties, patient positioning, intermediate instrumentation, suture use and identification, drain use and identification.   |  | | --- | | *Course Objectives:* | | 1. Students will demonstrate skills in checking package integrity 2. Students will demonstrate skills in labeling all solutions/meds 3. Students will demonstrate basic instrumentation knowledge 4. Students will demonstrate skills in loading and passing sharps/sutures 5. Students will demonstrate skills in performing steps in a logical sequence 6. Students will demonstrate skills in identify/correct sterility breaks & aseptic technique 7. Students will demonstrate skills in opening supplies 8. Students will demonstrate skills in gowning and gloving 9. Students will demonstrate skills in draping patient 10. Students will demonstrate skills in passing instruments 11. Students will demonstrate suture knowledge 12. Students will demonstrate organizational skills 13. Students will demonstrate case/count knowledge and use 14. Students will demonstrate skills in back table/mayo set up 15. Students will demonstrate skills in field and table clean up 16. Students will demonstrate skills cooperation/attitude/initiative 17. Advanced Surgical Procedures | |
| ISLO | **SVSTI’s Institutional Student Learning Outcomes illustrate the entire institution’s commitment to ensuring that all graduates demonstrate proficiency in the following: 1. Critical Thinking 2. Collaboration 3. Communication 4. Professionalism** |
| PSLO | Programmatic Student Learning Outcomes are listed below:   1. Upon completion of this course students will be able to identify the principles of aseptic technique 2. Demonstrate the skills and knowledge required to be a competent surgical technologist in a variety of settings, including hospitals, outpatient surgical facilities and other appropriate sites 3. Demonstrate critical thinking, information management, personal and professional development, communication skills, and respect and responsibility |
|  |  |
| Student Learning Outcomes | **SVSTI course content is developed in alignment with specific Student Learning Outcomes (SLO).**  Upon completion of this course students will be able;   |  |  | | --- | --- | | 1 | Perform fundamental concepts of intermediate procedures, patient positioning, and surgical draping (Psychomotor) | | 2 | Identify instruments/equipment/supplies needed for the surgical procedure (Psychomotor) | | 3 | Demonstrate responsibility, self-discipline, and surgical conscience & communication to the surgical team (Affective) | | 4 | Apply basic understanding of Anatomy & Physiology & appropriate medical terminology. (Cognitive) | |
| Course Specific Requirement | You must pass this course with an overall score of 70% or above. SVSTI’s absence policy will be adhered to – please see your catalog for details, as this can affect your grade.  Please contact your instructor as soon as possible if you require any type of support during the course – we are all here to help you be a successful student.   |  |  | | --- | --- | | LETTER GRADE EARNED | PERCENTAGE RANGE | | A | 90-100% | | B | 80-89% | | C | 70-79% | | D | 60-69% | | F | Below 60% |   The above table informs you of the % points you need to achieve to earn the related letter grade in each subject area.  **Dress Code**   * No facial jewelry (except post earrings), no hand jewelry in lab. * No perfumes, colognes or strong scents. * No nail polish (including clear), no artificial nails. * Wear Black Scrubs * No unnatural hair colors |
| Course Schedule | |  |  |  |  | | --- | --- | --- | --- | | Week | SLO, Topic | Reading | Assignment & Due Date | | 1 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST- Biomedical Science & Minimally Invasive Surgery. Surgical Technology for the Surgical Technologist: A Positive Care Approach  Microbiology-Microbial Disease Transmission. Microbiology for Surgical Technologist  Confidentiality & the Management of Healthcare Info. Ethics, Legal Issues and Professionalism in Surgical Technology  Justice & the Allocation of Scarce Resources. Ethics, Legal Issues & Professionalism in Surgical Technology  **Lab Evaluation Week 1** | Chapter 6  Chapter 9  Chapter 5  Chapter 6  **Medication Labeling & Syringe Passing** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 2 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST- Emergency Situations & All-Hazards Preparation. Surgical Technology for the Surgical Technologist: A Positive Care Approach  Microbiology-Microbial Disease Transmission cont. Microbiology for Surgical Technologist  Ethics-Role Fidelity. Ethics, Legal Issues & Professionalism in Surgical Technology  Ethics-Reproductive Issues. Ethics, Legal Issues & Professionalism in Surgical Technology  **Lab Evaluation Week 2** | Chapter 8  Chapter 9  Chapter 7  Chapter 8  **Lithotomy, Upper & Lower Extremity Draping** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 3 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST-Surgical Pharmacology & Anesthesia. Surgical Technology for the Surgical Technologist: A Positive Care Approach  Microbiology-Parasites & Vectors. Microbiology for Surgical Technologist  Ethics- Decisions at End of Life. Ethics, Legal Issues & Professionalism in Surgical Technology  Ethics-Healthcare Ethics & the Near Future. Ethics, Legal Issues & Professionalism in Surgical Technology  **Lab Evaluation Week 3** | Chapter 9  Chapter 10  Chapter 9  Chapter 10  **Surgical Skin Prep, Dressing Identification** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 4 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST-Genitourinary Surgery. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P- The Urinary System. Fundamental of Anatomy and Physiology  Microbiology-Parasites & Vectors cont. Microbiology for Surgical Technologist  Medical Terminology-The Urinary System. Medical Terminology for The Health Professions  Surgical Instrumentation-Urologic Instrumentation. Surgical Instrumentation  **Lab Evaluation Week** | Chapter 20  Chapter 18  Chapter 10  Chapter 9  Chapter 9  **Drawing Medication from a vial** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 5 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST-Genitourinary Surgery cont. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P-The Urinary System cont. Fundamental of Anatomy and Physiology  Microbiology-Mycology. Microbiology for Surgical Technologist  Medical Terminology-The Urinary System cont. Medical Terminology for the Healthcare Professions  **Lab Evaluation Week 5** | Chapter 20  Chapter 18  Chapter 11  Chapter 9  **Patient Transfer** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | |  |  |  |  | | 6 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST-Orthopedic Surgery. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P-The Skeletal System. Fundamental of Anatomy and Physiology  Mayo Tray Simulation Basic ORIF Radius Fracture:Fracture Reduction  Surgical Instrumentation- Basic Bone & Joint Instrumentation. Surgical Instrumentation  Microbiology-Gram-Positive Cocci. Microbiology for Surgical Technologist  Medical Terminology-The Skeletal System. Medical Terminology for the Health Professions  **Lab Evaluation Week 6** | Chapter 21  Chapter 7  MindTap  Chapter 10  Chapter 12  Chapter 3  **Avagard** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 7 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST- Orthopedic Surgery cont. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P The Articular System. Fundamental of Anatomy and Physiology  Mayo Tray Simulation Basic ORIF Radius Fracture:Setup-Exposure. Surgical Instrumentation  Microbiology-Gram-Positive Bacilli. Microbiology for Surgical Technologist  Medical Terminology-The Skeletal System cont. Medical Terminology for the Healthcare Professions  **Lab Evaluation Week 7** | Chapter 21  Chapter 8  MindTap  Chapter 13  Chapter 3  **Mid Term Mocks** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 8 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST- Ophthalmic Surgery. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P The Articular System cont. Fundamental of Anatomy and Physiology  Microbiology-Actinobacteria. Microbiology for Surgical Technologist  Medical Terminology-The Special Senses: Eyes and Ears. Medical Terminology for the Healthcare Professions  Surgical Instrumentation-Microsurgery Instrumentation. Surgical Instrumentation  **Lab Evaluation Week 8** | Chapter 16  Chapter 8  Chapter 14  Chapter 11  Chapter 14  **Mid-Term Evaluation** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 9 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST- Ophthalmic Surgery cont. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P The Blood. Fundamental of Anatomy and Physiology  Microbiology- Gram-Negative Cocci & Spirochetes. Microbiology for Surgical Technologist  Medical Terminology- The Special Senses: Eyes and Ears cont. Medical Terminology for the Healthcare Professions  **Lab Evaluation Week 9** | Chapter 16  Chapter 13  Chapter 15  Chapter 11  **Passing off cords** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | |  |  |  |  | | 10 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST-Otorhinolaryngologic Surgery. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P- The Respiratory System. Fundamental of Anatomy and Physiology  Microbiology- Gram-Negative Bacilli & Coccobacilli. Microbiology for Surgical Technologist  Medical Terminology-The Respiratory System. Medical Terminology for the Healthcare Professions  **Lab Evaluation Week 10** | Chapter 17  Chapter 17  Chapter 16  Chapter 7  **Suture Loading & Passing/ Suture Identification** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 11 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST-Otorhinolaryngologic Surgery cont. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P The Respiratory System cont. Fundamental of Anatomy and Physiology  Microbiology- Disease of the Circulatory and Central. Microbiology for Surgical Technologist  Medical Terminology-The Respiratory System cont. Medical Terminology for the Healthcare Professions  **Lab Evaluation Week 11** | Chapter 17  Chapter 17  Chapter 17  Chapter 7  **Multiple Sets** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 12 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST Oral & Maxillofacial Surgery. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P- The Cardiovascular Circulatory System. Fundamental of Anatomy of Physiology  Microbiology-Disease of the Skin & Internal Tissues. Microbiology for Surgical Technologist  Medical Terminology- The Endocrine System. Medical Terminology for the Healthcare Professions  Surgical Instrumentation-Head & Neck Procedure Instrumentation. Surgical Instrumentation  **Lab Evaluation Week 12** | Chapter 18  Chapter 14  Chapter 18  Chapter 13  Chapter 11  **Closure Devices, Drains, Stomas, Drain Insertion** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 13 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST Cardiac Surgery. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P The Cardiovascular Circulatory System cont. Fundamental of Anatomy and Physiology  Mayo Tray Simulation-AAA Anastomosis  Microbiology- Disease of the Gastrointestinal. Microbiology for Surgical Technologist  Surgical Instrumentation-Cardiothoracic & Vascular Instrumentation. Surgical Instrumentation  Medical Terminology- The Cardiovascular System. Medical Terminology for the Health Professions  **Lab Evaluation Week 13** | Chapter 22  Chapter 14  MindTap  Chapter 19  Chapter 13  Chapter 5  **Foley Catheters** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 14 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST-Peripheral Vascular Surgery. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P The Endocrine System. Fundamental of Anatomy and Physiology  Mayo Tray Simulation-AAA Incision-Initial Exposure. Surgical Instrumentation  Microbiology Diseases of the Eyes, Ears, & Respiratory. Microbiology for Surgical Technologist  Medical Terminology-The Cardiovascular System Cont. Medical Terminology for the Health Professions  **Lab Evaluation Week 14** | Chapter 23  Chapter 12  MindTap  Chapter 20  Chapter 5  **Laparoscopy Instrument Identification** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 15 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST- Neurosurgery Surgery. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P The Nervous System. Fundamental of Anatomy and Physiology  Mayo Tray Simulation-Dural Opening-Surgical Mayo Setups  Microbiology-Control of Microbial Growth. Microbiology for Surgical Technologist  Medical Terminology-The Nervous System. Medical Terminology for the Healthcare Professions  Surgical Instrumentation-Neurosurgery Instrumentation- Surgical Instrumentation  **Lab Evaluation Week 15** | Chapter 24  Chapter 10  MindTap  Chapter 21  Chapter 10  Chapter 12  **Mock Finals** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | | 16 | ISLO 1-4  PSLO 1-3  SLO 1-4  AST Neurosurgery cont. AST Surgical Technology for the Surgical Technologist: A Positive Care Approach  A&P The Nervous System:The Brain, Cranial Nerves, & Special Senses. Fundamental of Anatomy and Physiology  Mayo Tray Simulation- Craniotomy:Exposure. Surgical Instrumentation  Microbiology-Emerging, Recurring, &Reappearing Diseases. Microbiology for Surgical Technologist  Medical Terminology-Comprehensive Review. Medical Terminology for the Health Professions  **Lab Evaluation Week 16** | Chapter 24  Chapter 11  MindTap  Chapter 22  Review  **Final Evaluation (must pass with a 70% or higher)** | Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm  Monday at 12pm | |
| Academic Integrity Statement | Ensuring academic integrity is an educational objective taken very seriously. Based on respect for individual academic achievement, each student and faculty member commits to being a part of a community of scholarship that prides itself on honesty and integrity. Students agree that, by taking this course, all required papers may be subject to submission for textual similarity review to Turnitin.com for the detection of plagiarism. All submitted papers will be included as source documents in the Turnitin.com reference database solely for the purpose of detecting plagiarism of such papers. Use of the Turnitin.com service is subject to the Terms and Conditions of Use posted on the Turnitin.com site.  Academic and/or professional misconduct is subject to disciplinary action, including being placed on probation, failing a graded course component, failing a course, or being dismissed. Student academic misconduct includes, but is not limited to, cheating on examinations, plagiarism, bribery, falsification of student records, and improper attempts to influence instructors or school officials. For online courses, this includes submitting others' work, entering discussion threads under false pretenses, or not complying with instructor or Online Educational Center authorship. |
| Grading Policy | Table of Evaluations   |  |  |  | | --- | --- | --- | | Assignment | Points | Weighting | | Cengage Ethics | 324 Points | 7% | | Cengage A&P | 1490 Points | 10% | | Cengage AST | 1652 Points | 10% | | Cengage Med Term | 2172 Points | 6% | | Cengage Microbiology | 568 Points | 10% | | Cengage Surgical Instruments | 701 Points | 10% | | Pop Quiz | 10@10= 100 points | 5% | | Attendance | 48@5= 240 points | 10% | | Lab Evals | 12@10 pts= 120 points | 12% | | Lab Midterm | 100 Points | 10% | | Lab Final | 100 Points | 10% | | **Total Points** | **7567 Points** | **100%** | |
| Methods of Evaluation | The grade for this course will be a compilation, determined by satisfactory completion of:   |  |  | | --- | --- | | □Cengage | ☐Discussions | | □Quizzes | ☐Simulations | | ☐Case Studies | ☐Role-play | | □Homework | □Lab skills | | □Test |  | | □Skills Demonstrations | ☐Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Methods of Instruction | |  | | --- | | ☐Online | | □Classroom Based | | ☐Hybrid | | □Lab | | ☐Demonstrations | | ☐Field Trips | | □Visiting Speakers | | □Simulation | | ☐Role-play | | Other: | |
| Late Assignment Policy | You are required to complete this course in the time period specified by your instructor, your class schedule, and your syllabus. Your instructor or their supervisor can advise you on the current late assignment policy. |
| Reviewed | October 2019 |
|  |  |