**ST 151 Essentials of Human Anatomy & Physiology II for Surgical Technicians (4 credits)**

**Term I**

**Instructor:** Tara Kruse

**Email: kruset@linnbenton.edu**

**Office Contact:**  Email is the best way to contact the instructor for this class. Messages received between Monday at 8am and Friday at 5pm are generally returned within 24 hours. Messages received on Saturdays, Sundays, or holidays will be returned on the next business day. By appointment, please email to set up a mutually convenient time.

**Text:**

* This courses uses a significant amount of Open Educational Resource (OER) material
* Surgical Technology: Principles and Practice, 6th edition
* Illustrated Guide to Medical Terminology
* Journal of Medical Insight

**Course Description:** The second in a 2-course series that covers the basic structures and functions of the human body. This course addresses the following body systems: Cardiovascular, Urinary, Digestive and Male Reproductive system.

* This course contains 40 hours of instructor created content with the expectation that the average student will have 120 - 160 hours of engagement within the quarter.
* This is an online asynchronous course
* **Students progress in a prescribed linear methodology through the course demonstrating competency.**
* Grading rubrics are provided for every Competency Assessment

**Program Outcomes**:

* Demonstrate competence in the technological aspects of the surgical technologist profession.
* Demonstrate competence in surgical technologist duties, procedures and cases.

**Course Outcomes:**

* **Describe the basic organizational structures of the human body.**

## **[Contrast and compare organs of the cardiovascular, lymphatic, respiratory, digestive, ur](https://linnbenton.instructure.com/courses/629/outcomes/111586)inary, endocrine, and reproductiv[e.](https://linnbenton.instructure.com/courses/629/outcomes/111586)**

* **Analyze the cardiovascular, lymphatic, respiratory, digestive, urinary, endocrine, and reproductive for composition and function.**

AST Course Outcomes:

* Anatomy and Physiology
* Pathophysiology

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| Read: Introduction: Digestive System |
| Competency Assessment: Define Medical Terms |
| Activity: Definition Practice |
| Lecture Materials: Digestive System |
| Activity: The Digestive System Diagrams |
| Self-check: Digestive System MC (20) |
| Competency Assessment: Digestive System Review |
| Video: Digestive System |
| Activity: What Do you Know? |
| Competency Assessment: Function and Structure of the Digestive System |
| Competency Assessment: Surgical Conscience |
| Competency Assessment: Esophagectomy |
| Competency Assessment: POEM |
| Self-check: Digestive Surgical Procedures (10) |
| Competency Assessment: Laparoscopic Sleeve Gastrectomy |
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| Read: Introduction: Respiratory System |
| Competency Assessment: Define Medical Terms |
| Activity: Definition Practice |
| Lecture Materials: Respiratory System |
| Activity: Respiratory System Diagrams |
| Self-check: Respiratory System MC (20) |
| Competency Assessment: Respiratory Review |
| Video: The Respiratory System |
| Activity: What Do you Know? |
| Competency Assessment: Function and Structure of the Respiratory System |
| Competency Assessment: Wedge Resection of the Lung |
| Self-check: Respiratory System Procedures (5) |
| Competency Assessment: VATS |

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| Read: Introduction Cardiovascular System |
| Competency Assessment: Define Medical Terms |
| Activity: Definition Practice |
| Lecture Materials: Cardiovascular System |
| Activity: Cardiovascular System Diagrams |
| Self-check: Cardiovascular System MC (20) |
| Competency Assessment: Cardiovascular System Review |
| Video: Cardiovascular System |
| Activity: What Do you Know? |
| Competency Assessment: Function and Structure of the Cardiovascular System |
| Competency Assessment: Heart Transplant |
| Competency Assessment: Coronary Artery Bypass |
| Self-check: Cardiovascular Surgical Procedures (10) |
| Competency Assessment: Mitral Valve Replacement |
| Capstone #1 |
| Read: Introduction Lymphatic & Immune Systems |
| Competency Assessment: Define Medical Terms |
| Activity: Definition Practice |
| Lecture Materials: The Lymphatic and Immune Systems |
| Activity: Lymph System Diagrams |
| Self-check: Lymph & Immune System MC (20) |
| Activity: What Do you Know? |
| Video: The Lymphatic and Immune Systems |
| Competency Assessment: Lymph and Immune System Review |

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| Read: Introduction: Urinary System |
| Competency Assessment: Define Medical Terms |
| Activity: Definition Practice |
| Lecture Materials: Urinary System |
| Activity: Kidney Diagrams |
| Self-check: Urinary System MC (10) |
| Competency Assessment: Urinary System Review |
| Video: Urinary System |
| Activity: What Do you Know? |
| Competency Assessment: Function and Structure of the Urinary System |
| Competency Assessment: Ureteroscopy & Laser Lithotripsy |
| Competency Assessment: Cloacal Exstrophy Repair |
| Self-check: Urinary Surgical Procedures |
| Competency Assessment: Urethroplasty |
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| Read: Introduction Endocrine System |
| Activity: Definition Practice |
| Lecture Materials: The Endocrine System |
| Self-check: Endocrine System MC (20) |
| Activity: What Do you Know? |
| Video: Endocrine Systems |
| Competency Assessment: Lymph and Immune System Review |
| Competency Assessment: Pituitary Tumors |
| Capstone #2 |

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| Read: Introduction: Male Reproductive System |
| Competency Assessment: Define Medical Terms |
| Activity: Definition Practice |
| Lecture Materials: Male Reproductive System |
| Self-check: Male Reproductive System MC (20) |
| Competency Assessment: Male Reproductive System Review |
| Video: Male Reproductive System |
| Activity: What Do you Know? |
| Competency Assessment: Function and Structure of the Male Reproductive System |
| Competency Assessment: TURP |
| Competency Assessment: Penile Implant |
| Self-check: Male Reproductive System Surgical Procedures (10) |
| Competency Assessment: Cystoscopy |
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| Read: Introduction: Female Reproductive System |
| Competency Assessment: Define Medical Terms |
| Activity: Definition Practice |
| Lecture Materials: Male Reproductive System |
| Activity: Reproductive System Diagrams |
| Self-check: Female Reproductive System MC (20) |
| Competency Assessment: Female Reproductive System Review |
| Video: Female Reproductive System |
| Activity: What Do you Know? |
| Competency Assessment: Function and Structure of the Female Reproductive System |
| Competency Assessment: TC-Section |
| Competency Assessment: Penile Implant |
| Self-check: Gynecological & Obstetrics Surgical Procedures (10) |
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| Final Exam |

**GRADING:**

* **A minimum of 75% is required on all Assessments**
* This is a two (2) credit, letter grade course.with the final grading scale as::
  + A = 90 – 100%
  + B = 80 – 89%
  + C = 75 - 79%
  + FAIL = < 75%

**COURSE FAILURE POLICY**

If a student fails this course, he or she must withdraw from the program.

**LBCC Center for Accessibility Resources Policy**

Students who use accommodations in a regular classroom should contact their Instructors as soon as possible. If you have not accessed services and think you may need them, please contact the [LBCC **Center for Accessibility Resources** office (Links to an external site.)Links to an external site.](http://linnbenton.edu/go/ds), you can **send an email** or call 541.917.4789.

Accommodations for online courses may be different than those for traditional classrooms. It is important that you contact LBCC Center for Accessibility Resources as soon as possible to discuss solutions and options.

You should meet with your instructor during the first week of class if:

* You have a documented disability and need accommodations,
* Your instructor needs to know medical information about you, or
* You need special arrangements in the event of an emergency.

If you have not accessed services and think you may need them, please contact the Center for Accessibility Resources (CFAR), 541-917-4789.

**STATEMENT OF INCLUSION**

The LBCC community is enriched by diversity. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. I actively support this right regardless of race, creed, color, personal opinion, gender, sexual orientation, or any of the countless other ways in which we are diverse. (Related to Board Policy #1015)