

Revised 8/15/03  
Joyce Kronberg

**WEST VIRGINIA UNIVERSITY AT PARKERSBURG  
UNIFORM COURSE SYLLABUS**

Name of Course: Surgical Technology Anatomy and Physiology

Course No. Biol. 109/109L

Department: **Biology**

Division: **Natural Sciences/Mathematics**

**I. Course Objectives**

- a. To understand normal anatomy and physiology of the body
- b. To understand disease processes for the body's systems
- c. To study some clinical situations, especially as related to surgery
- d. To promote critical thinking in the course

**II. Topics to Be Studied**

- a. Anatomical terms and levels of organization of the body
- b. Chemistry of cells and bio-chemicals in the body
- c. Tissues and the infectious process
- d. All systems of the body-integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive

**III. Special Projects to Be Included in Course**

<b>Research papers</b>	<b>Reports</b>
<b>Surveys-</b>	<b>Annotated bibliographies</b>
<b>Other-</b>	
scavenger hunt of selected items	
Surveys of learning styles	
Surveys of R or L Brain function	
Reports on Burns, A and P Pioneers, disorders of the sense organs	
Dissection of major systems	
microscopic identification for tissues	
Urinalysis, blood typing, diffusion experiment	

**IV. Methods of Student Evaluation**

**Tests (how many? how often? what type?)**

3 exams per semester, not cumulative  
Final exam over last fourth of material  
Exams-50% short answer and 50% essay  
Quizzes-3 per semester to equal one exam  
Oral Presentations-none  
Written Papers-Internet papers on scavenger hunt (enclosed)  
Laboratory Activities-see course outline for exact lab work (enclosed)

Clinical Experiences-autopsy slides and x-rays  
Hospital Lab results-sheets from hospitals

V. **Assessment of Outcomes**

**What measurements will be used to demonstrate that outcomes have been reached?**

**(Refers to class as a whole, not individual students.)**

3 exams, one exam from quiz averages,  
3 lab practicals,  
One lab practical grade from scavenger hunt items

YE. **Other Information**

**What additional information will help to clarify the course?**

This class focuses on disease and correction of the problem by surgery.  
Therefore, time is spent for autopsy slides and X-rays on each major system.  
The clinical aspect and maintaining (or promoting) good health practices is used.  
The lab promotes the dissection of the fetal pig.  
Use of strict safety procedures-goggles, gloves and biohazard procedures

Prerequisite-You must be admitted into the surgical technology program in order to take the class. This class may not be used as a substitute for the nursing anatomy and physiology class (Biology 107 and 108). However, Biology 107 and 108 may be used as a substitute for this course.

Grading scale A 90-100  
B 80-89  
C 70-79  
D 60-69  
F below 60