

Las Positas College  
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**Course Outline for HSCI 51B**  
**ADV. MEDICAL TERM & DISEASE**  
**Effective: Fall**

**I. CATALOG DESCRIPTION:**

HSCI 51B — ADV. MEDICAL TERM & DISEASE — 4.00 units

Introduction to the nature of disease and to structural and functional changes of diseases as they affect the systems of the body; discussion of causes, symptoms and treatment of disease.

4.00 Units Lecture

**Prerequisite**

HSCI 51A - Basic Medical Terminology  
with a minimum grade of C

**Grading Methods:**

**Discipline:**

	<b>MIN</b>
<b>Lecture Hours:</b>	72.00
<b>Total Hours:</b>	72.00

**II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1**

**III. PREREQUISITE AND/OR ADVISORY SKILLS:**

**Before entering the course a student should be able to:**

A. HSCI51A

**IV. MEASURABLE OBJECTIVES:**

**Upon completion of this course, the student should be able to:**

1. understand basic structure and function of the human body in terms of cells, tissues, organs and systems;
2. identify the various mechanisms of disease;
3. understand the role of nutrition and metabolism in health and disease;
4. list the importance of homeostasis in terms of acid base balances, and fluid and electrolyte balance;
5. describe the process of growth and development;
6. understand genetics and genetic diseases;
7. build and apply medical terms and abbreviations used in the medical field;
8. understand the pathogenesis, clinical manifestations and therapeutic modalities as they relate to diseases of each body system;
9. build and apply concepts from 51A for selected foci for example HIV/AIDS and aging.

**V. CONTENT:**

- A. Structure and function of the body
- B. Cells and tissues
- C. Organ systems
- D. Mechanism of disease to include: cancer, inflammation, infection, obstruction
- E. Nutrition and metabolism
- F. Fluid and electrolyte balance
- G. Acid base balance
- H. Growth and development
- I. Genetics and genetic diseases
- J. Medical terminology and abbreviations
- K. Aging
- L. HIV/AIDS
- M. Pathogenesis, clinical manifestations and therapeutic modalities, as they relate to diseases of the:
  1. integumentary system and body membranes
  2. skeletal system
  3. muscular system
  4. nervous system and senses
  5. endocrine system
  6. blood and circulation
  7. heart

8. lymphatic system and immunity to include AIDS
9. respiratory system
10. digestive system
11. male and female reproductive system
12. urinary system

VI. METHODS OF INSTRUCTION:

- A. **Lecture** -
- B. **Demonstration** -
- C. Appropriate research assignments
- D. Student presentation
- E. **Audio-visual Activity** -
- F. **Discussion** -

VII. TYPICAL ASSIGNMENTS:

VIII. EVALUATION:

- A. **Methods**
  1. Quizzes
- B. **Frequency**

IX. TYPICAL TEXTS:

1. Thibideau *The Body in Health and Disease.*, Mosby, 0.

X. OTHER MATERIALS REQUIRED OF STUDENTS: