

**HLC 50 Course Outline as of Summer 2012****CATALOG INFORMATION**

Dept and Nbr: HLC 50 Title: PHYSICAL & BIO SCI  
 Full Title: Basic Physical & Biological Science  
 Last Reviewed: 8/1/1981

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	0	17.5	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

**Catalog Description:**

Introduction to basic physical and biological sciences, including chemistry, physics, anatomy, physiology, microbiology, metric system and basic biomath.

**Prerequisites/Corequisites:****Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100.

**Limits on Enrollment:****Schedule of Classes Information:**

Description: Intro to basic physical & biological sciences. Chemistry, physics, anatomy, physiology, microbiology, metric system & basic biomath. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100.

Limits on Enrollment:

Transfer Credit:

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>		<b>Effective:</b>	<b>Inactive:</b>
	C	Natural Sciences	Fall 1981	Summer 2012
<b>CSU GE:</b>	<b>Transfer Area</b>		<b>Effective:</b>	<b>Inactive:</b>
<b>IGETC:</b>	<b>Transfer Area</b>		<b>Effective:</b>	<b>Inactive:</b>
<b>CSU Transfer:</b>		<b>Effective:</b>	<b>Inactive:</b>	
<b>UC Transfer:</b>		<b>Effective:</b>	<b>Inactive:</b>	

### **CID:**

#### **Certificate/Major Applicable:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Outcomes and Objectives:**

The students will:

1. Develop a deeper and broader perspective of the intricacies of human body structure and function.
2. As a result of 1, significantly increase their appreciation, not only for the human body, but for the rationale behind practices and procedures currently employed by clinical medical science.
3. As a result of 1, acquire a relatively detailed knowledge which can be recalled, as needed, in future career-related course work, and in clinical learning situations.
4. As a result of 1, develop and experience a greater sense of confidence in functioning within clinical settings.
5. Further develop a sense of academic integrity and respect for scientific reasoning, as acquired through repeated observations of the instructor's behavior.
6. Acquire a clearer perspective of his own academic potential in relation to his chosen career.
7. Increase his capacity to assimilate, digest, and correlate relatively large amounts of information in a relatively short span of time, presumably increasing his potential to benefit more from future training sessions.

### **Topics and Scope:**

1. Basic principles of chemistry.
2. Basic principles of physics.
3. Mathematical concepts.
4. Anatomy and physiology.
  - A. General.
  - B. Skeletal system.
  - C. Muscular system.

- D. Neuroendocrine system.
- E. Cardiovascular system.
- F. Respiratory system.
- G. Digestive system.
- H. Renal system.
- I. Reproductive systems.
- J. Integumentary system.
- J. Principles of immunology.

**Assignment:**

As this is a beginning level college course, most enrollees enter with

**Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None

Writing  
0 - 0%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

None

Problem solving  
0 - 0%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations  
0 - 0%

**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion

Exams  
0 - 80%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

SHORT ESSAY

Other Category  
0 - 20%

**Representative Textbooks and Materials:**

THE HUMAN BODY IN HEALTH AND DISEASE by Memmler and Wood.