

MASTER SYLLABI

AHSC 1000 Allied Health Science (revised 8/06)

CIP CODE: 51.1105

CREDIT HOURS (Lecture/Lab/Total): 2/1/3

CONTACT HOURS (Lecture/Lab/Total): 30/30/60

COURSE DESCRIPTION:

This Science course provides entry level introduction to biology and chemistry thus providing a foundation for enrollment into an allied health program and improving proficiency in career preparation courses.

PREREQUISITES: Successful completion of the placement examination for the primary program of interest. This course may be waived based on ACT or TEAS science score **or** successful completion of college level science course (Biology, Chemistry, etc), **or** LTC Allied Health Science challenge test.

COURSE OBJECTIVES:

Upon successful completion of this course, the student will be able to:

1. Define the term biology.
2. Identify health careers that include the study of biology.
3. Identify the basic characteristics of life that define a living organism.
4. Define homeostasis.
5. Explain the difference between anaerobic and aerobic respiration.
6. Identify the structures that comprise an animal cell.
7. Define the following cellular transport processes: facilitated diffusion, diffusion, osmosis, and active transport.
8. List the 4 blood types.
9. Identify the cellular components of blood.
10. Give the composition, location and function of DNA and RNA in the cell.
11. Define: chromosomes, allele, heterozygous, homozygous, recessive, and dominant.
12. Differentiate between mitosis and meiosis.
13. Identify structure and characteristics of the following: bacteria, viruses, and fungi.

MIDPOINT

14. Define the following terms: chemistry, atom, ion, cation, anion, matter, mass, weight, element, compounds, molecules, mixtures, atomic number, and solutions.
15. Identify the 3 major particles of the atom, their charges and location in the atom.
16. Identify the 3 states of matter.

17. Identify common metric prefixes and common equivalencies used in chemistry.
18. Identify and define acids, bases, and salts and describe general properties of each.
19. Identify and define mixtures and solutions and factors that affect dissolving rates.
20. Identify and define substances as acids, bases, or neutral using the pH scale.
21. Identify the chemical symbols and their charges for the following elements and compounds:
Hydrogen, Oxygen, Chlorine, Sodium, Iron, Calcium, Nitrogen, Magnesium, Bicarbonate, Potassium, Carbon, Ammonia, and Sulfate.

OTHER COURSE REQUIREMENTS:

- Attend class regularly and on time. The instructor reserves the right to set class attendance policy.
- Bring supplies/materials to each class meeting.
- Ask instructor for assistance as needed.
- Complete assignments in a timely manner.
- Turn off all beepers and cellular phones.
- No eating, drinking, or smoking in class.

EXPANDED COURSE OUTLINE: (Instructor will provide a detailed outline of PLATO coursework for the semester.)

TEXTBOOKS AND OTHER MATERIALS:

Faculty will utilize the PLATO web-based system. Supplemental instructional materials are provided within the PLATO system of learning as well as from a campus published list of approved resale materials.

ATTENDANCE POLICY:

All students must be officially enrolled in any course that they attend. It is expected that students will attend scheduled classes regularly and on time. If an absence occurs, it is the responsibility of the student to make up all missed work, if approved by the instructor. Students who stop attending a course and do not officially drop, may receive a grade of "F" for all coursework missed that may result in a punitive final grade. An instructor may drop a student for excessive absences if the student misses 10% of the class.

This policy shall be superseded by any more stringent attendance policy required by a regulatory or licensing body having jurisdiction over program requirements. The attendance policy for each class must be included in the course syllabi.

Attendance will be tracked and maintained for various reporting purposes.

EVALUATION AND GRADING:

90 – 100%	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
59% below	F

ACADEMIC HONESTY:

Plagiarism, cheating, and other forms of academic dishonesty are prohibited. In addition to other possible disciplinary sanctions, which may be imposed through the regular institutional procedures as a result of academic misconduct, your instructor will assign an zero for the exercise or examination that evidences academic misconduct for the first offense and assign an "F" for the course for repeated offenses.

STUDENTS WITH DISABILITIES:

The College complies with Section 504 and the Americans with Disabilities Act. Students with disabilities who seek accommodations must make their requests known by contacting the Disabilities Coordinator at the beginning of each semester. If a disability is identified later in the semester, a non-retroactive accommodation plan will be developed.