Science or Computer Science Courses - Associate of General Studies and Associate of Science Outcomes

Department/Discipline: Health Professions
Systems II (H0152) Course: Human Body

1. Science Discipline Studies Outcomes

2. Science Discipline Studies Course Criteria

should:	A General Education course in Science
	How course meets criterion
	Related Course Outline statements

Students will correctly describe anatomy and physiology, homeostasis, the negative-feedback system and explain why they are important.	Films, "melt away" layers of dissection via CD ROM, access to microscopes and A & P models of the human body help develop the students' curiosity of the subject matter and help foster a Western based model of critical thinking and reasoning while studying the human body.	• Engage students in collaborative, hands-on and/or real-life activities that develop scientific reasoning and the capacity to apply mathematics, and that allow students to experience the exhilaration of discovery.
Related Course Outline statements	How course meets criterion	In addition, a General Education course in Science should:
The student will have a basic understanding of an element, atom and subatomic particles of the atom. The student will also understand ionic and covalent bonding and how these processes affect the human body.	Lectures detail how basic chemistry and physics apply to the dynamic interplay of the body systems and how chemistry and physics help maintain homeostasis.	3. Examine relationships with other subject areas, including the ethical application of science in human society, and the relevance of science to everyday life.
Students will have a basic understanding of nutrition and recommended daily requirements of calories and nutrients. Students will have a basic understanding of the relationship between a poor diet and various health related diseases.	Lectures detail how body systems work and also how they fail. Analytical thinking is encouraged on why systems fail and what measures might be taken to prevent their failure. An example would be various diets to combat diseases such as CAD and diabetes mellitus II. Also discussed are various diets to lose weight and how these diets affect certain body systems.	2. Engage students in problem-solving and investigation, through the application of scientific and mathematical methods and concepts, and by using evidence to create and test models and draw conclusions. The goal should be to develop analytical thinking that includes evaluation, synthesis, and creative insight.
Students will have a basic understanding of microbiology and diseases and knowledge of how antibiotics treat diseases and the problem of resistant strains of disease-causing pathogens.	Western based critical thinking is introduced in course. Analyzing history of medicine details how scientific concepts evolve and are eventually replaced with empirically tested and peer reviewed analysis.	
Related Course Outline statements	How course meets criterion	A General Education course in Science should:

Date

Instructory

Academic Dean

Date