

Associate Degree in Occupational Health and Safety (SCI 1003) Introduction to Chemistry and Biology

Course Description

In this course, students will learn about basic human biology at an introductory level, including topics such as human anatomy, the basic principles of microbiology and toxicology, epidemiology, emerging pathogens, and biosafety levels 1 through 4.

Students will also learn about introductory chemistry, including matter and energy, chemical bonding, organic chemistry, and biochemistry.

Learning Objectives

By the end of this course, students will be able to:

- Discuss key introductory concepts and theories of human biology
- Define chemistry and describe how it relates to other fields of science
- Describe different organic compounds and functional groups
- Explain the role of biomolecules and their functions
- Explain the concepts of toxicology in various forms related to the body
- Practice biosafety in your workplace according to the required levels
- Identify biochemical and chemical hazards and their effects on the workplace

Grade Scheme: Letter Grade

Minimum Pass: 60%

Deliverables:

- Weekly assignments
- Discussion Forums
- Midterm Assessment
- Final Exam

*Please note that this document is for marketing purposes and that the details of the course including grading and objectives may change or vary.

Grade	Grade Point Average (GPA)	Percentage	Explanation
A+	4.3	90-100%	Outstanding
A	4.0	85-89%	Excellent
A-	3.7	80-84%	Very Good
B+	3.3	77-79%	Good
B	3.0	73-76%	Good
B-	2.7	70-72%	Good
C+	2.3	65-69%	Satisfactory
C	2.0	60-64%	Satisfactory
C-	1.7	55-59%	Academic Probation-Level Grade
D	1.3	50-54%	Academic Probation-Level Grade
F	0.0	0-49%	Failure
TC	0.0	N/A	Transfer Credit(s)