NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
RTH 102 – INTEGRATED SCIENCES FOR RESPIRATORY CARE II (3 CR.)

Course Description
Integrates the concepts of mathematics, chemistry, physics, microbiology, and computer technology as these sciences apply to the practices of respiratory care. Lecture 3 hours per week.

General Course Purpose
This course is offered in the first semester of the program and is designed for beginning respiratory therapy students. The purpose of this course is to integrate basic sciences within the framework of a professional program in respiratory therapy.

Course Prerequisites/Corequisites
None

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

- Understand the fundamental mathematical skills used in performing calculations associated with respiratory care
- Apply algebraic principles to physiologic and clinical computations
- Relate basic concepts of chemistry to clinical respiratory care and pulmonary physiology
- Understand various physical laws, principles, and theories associated with respiratory care
- Demonstrate a fundamental understanding of certain principles of microbiology as they relate to respiratory care

MAJOR TOPICS TO BE INCLUDED
- Mathematics
- Physics
- Chemistry
- Microbiology