ALH 501 Health Promotion and Disease Prevention  
This course is an in-depth examination of health promotion; the science and art of helping people change their lifestyle to move toward a state of optimal health. Lifestyle changes can prevent chronic diseases, such as heart disease, cancer, and diabetes, which are the leading causes of death and disability in the United States. We will review and critically assess current efforts to influence lifestyle change, at both the individual and population levels. Students will have the opportunity to plan, organize, and conduct lifestyle change programs.  
Offered: summer & fall, occasionally spring; online only.

ALH 503 Medical Nutrition Therapy  
This course will explore the application of nutrition principles to the treatment and prevention of diseases. This treatment can range from changes in diet to providing specialized therapies such as intravenous or tube feeding. Topics discussed will include lifestyle strategies and therapeutic nutrient intervention to correct nutritional insufficiencies, promote optimal health, and prevent, manage, or correct medical problems.  
Offered: fall & spring, online only.

ALH 531 Applied Statistics for the Health Professions  
In this course, students will learn to select appropriate statistical procedures, analyze data, and interpret the results. SPSS for Windows will be used to cover descriptive statistics, tests of differences, and to develop methods of presenting tables and graphs.  
Offered: fall, spring, & summer; online only.

ALH 602 Cardiopulmonary Pathophysiology  
Details the functions of the cardiovascular and respiratory systems emphasizing normal function, pathophysiology, initiation and progression of disease and current treatment. Special reference will be made to the role of exercise as a therapeutic modality.  
Prerequisite: an introductory course in anatomy and physiology.  
Offered: every fall, online only.

ALH 621 Cardiopulmonary Pharmacodynamics  
This course provides study of the current medications used in the treatment of congestive heart failure, coronary artery disease, arrhythmias, angina and hypertension, asthma and COPD. The effects of these medications during acute and chronic exercise and cardiac emergency medications will also be covered.  
Prerequisite: ALH 602.  
Offered: every fall, online only.

ALH 631 Research Methods in Allied Health  
This course considers research methods and designs used in a variety of professional settings. The development of research techniques will be emphasized, including the ability to define research problems, develop hypotheses, review and interpret literature, apply research designs and draw relevant conclusions. The class culminates in the student writing and presenting a research proposal.  
Offered: fall, spring, & summer; online only.

ALH 689 Master's Project  
The master's project is designed as a rigorous scholarly activity that provides an opportunity to integrate theoretical knowledge with research.  
Prerequisite: permission of program director.  
Offered: fall, spring & summer.

ALH 699 Masters Project II  
Continues ALH 689 with an approved thesis proposal by collecting and analyzing data, and culminates in an approved written thesis.  
Prerequisite: ALH 689 & permission of program director.  
Offered: fall, spring & summer.

RES 512 Pulmonary Function Testing  
A study of pulmonary diagnostic techniques, with an emphasis on pulmonary function testing and interpretation.  
Offered: every spring, online only.

RES 522 Adult Learning Theory  
The concept of lifelong learning has become an increasing reality as adults continually engage in learning activities, whether through their employer, institutions of higher education, or self-directed study. This course will examine the social and psychological aspects of adult development and learning, including the various motivations of adult learners. Students will also learn various methods of training and development, as well as specific instructional practices.  
Offered: every fall, online only.

RES 612 Advanced Cardiopulmonary Monitoring  
Advanced cardiopulmonary care monitoring an overview of continuous and intermittent cardiopulmonary monitoring techniques, emphasizing theory of operation and procedure. Topics include sensors, computerized data acquisition, work of breathing determinations, and respiratory muscle strength.  
Offered: every fall, online only.

RES 615 Advanced Topics in Ventilatory Support  
Advanced study in methods of mechanical ventilatory support. Patient assessment by advanced monitoring is stressed, with attention to patient ventilator interactions, optimization of ventilatory support, and weaning of marginal patients. New ventilation technology and modes of support are discussed.  
Offered: every spring, online only.

RES 618 Pulmonary and Cardiac Rehabilitation  
This course explores pulmonary/cardiac rehabilitation clinics and combines exercise training with behavioral and educational programs designed to help patients with COPD and cardiac issues control symptoms and improve day-to-day activities. We will look at the team approach--patients work closely with their doctors; nurses; respiratory, physical, and occupational therapists; psychologists, exercise specialists; and dietitians. We will also explore the differences between cardiac and pulmonary rehabilitation.  
Offered: every spring, online only.