HSC 0210. Basic Nutrition. 2 Hours.
Introduces nutrition science, foods, and major nutrients. Focuses on current scientific knowledge of nutrition and a critical review of the literature and experimental data on which principles of human nutrition are based.

HSC 1200. Nutrition. 3 Hours.
Explores the fundamental role of nutrition in promoting health, wellness, and prevention of chronic disease. Topics include nutrients and nutritional needs across the life span; food safety and security; body weight regulation; and the genetic, social, and environmental influences on food choices and nutrition status.

HSC 1990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

HSC 2990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

HSC 3300. Epidemiology. 3 Hours.
Introduces the principles, concepts, and methods of population-based epidemiology—the study of patterns and determinants of disease in different populations. Topics include the dynamic behavior of disease; measures of disease frequency and effect; uses of rates, proportions, and other statistics to describe the health of populations; epidemiologic study designs; and bias in investigating the extent of disease problems and the associations between risk factors and disease outcomes.

HSC 3310. Pathophysiology. 3 Hours.
Examines human physiology related to oxygenation, nutrition, elimination, protective mechanisms, neurological functions, endocrine functions, and skin integrity. Topics include neurophysiology; immunology; cardiovascular, respiratory, renal, and gastrointestinal physiology; and endocrinology. Explores how the human body uses its adaptive powers to maintain equilibrium and how alterations affect normal processes.

HSC 3320. Pharmacology. 3 Hours.
Offers the fundamentals of pharmacology to students entering the health professions. Topics include the general principles of drug action, drug distribution, and drug elimination. Focuses on principles of pharmacology and the major drug classifications in relation to the treatment of health problems. Emphasizes dose response, side effects/drug interactions, route of administration, and place in clinical therapy. Drugs are presented according to therapeutic or functional classification.

HSC 3990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

HSC 4850. Project in Health Science. 3 Hours.
Offers students the opportunity to select a topic from any area of their health science studies. Students read current research and prepare an oral presentation and paper, including analysis of both the science perspective and the health perspective. The oral presentation requires students to apply knowledge gained in prior course work, to understand and integrate classroom learning in their research, and to communicate their findings effectively to their peers and instructors. The final paper can be written as a review of current research progress, identifying current challenges and projections about future research directions, or as a well-defined and researched grant proposal. Group seminars focus on how to read and interpret a health/scientific paper, how to research an emerging topic, and how to write a professional paper of publication quality.

HSC 4950. Seminar. 1-4 Hours.
Offers students an opportunity to select a topic from any area of their health science studies. Students read current research and prepare an oral presentation and paper, including analysis of both the science perspective and the health perspective. The oral presentation requires students to apply knowledge gained in prior course work, to understand and integrate classroom learning in their research, and to communicate their findings effectively to their peers and instructors. The final paper can be written as a review of current research progress, identifying current challenges and projections about future research directions, or as a well-defined and researched grant proposal. Group seminars focus on how to read and interpret a health/scientific paper, how to research an emerging topic, and how to write a professional paper of publication quality.

HSC 4990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

HSC 4996. Experiential Education Directed Study. 1-4 Hours.
Draws upon the student’s approved experiential activity and integrates it with study in the academic major.