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GENERAL EDUCATION COURSE DESCRIPTIONS

ACADEMIC TRAVEL ABROAD

Students who have successfully completed one Academic Travel Abroad (ATA) course may travel a second or subsequent time without registering for a class. Students will pay travel costs but no additional course fees will be required. Students will sign a contract agreeing to listen to destination-specific lectures, completing the pre-trip notebook and meeting with Dr. Patricia Brennan before traveling.

HC 204 Core II: A Cultural History of the Healing Arts

Three semester hours

Core II: A Cultural History of the Healing Arts positions the history of health care within a cultural framework. The course reviews the social, intellectual, and cultural history of the healing arts from ancient times to the 21st century. Not limited to the Western tradition, this approach invites the student to identify and explore the people, practices, and beliefs that have shaped the healing professions. Consideration of the still-evolving role of the health-care professional includes the history of Clarkson College. Student engagement will be emphasized using a required service experience. This course can be taken on campus, online or through Academic Travel Abroad.

Prerequisite: Successful completion of Core I.

HC 280 International Health Care

One to two semester hours

International Health Care examines health care systems in other countries and compares them to the American health care system. Students will participate in international visits to hospitals and other historical health care sites in the country visited by students participating in the Academic Travel Abroad program.

HU 290 Special Topics in Humanities

One to three semester hours

Taken through Academic Travel Abroad, this course provides a first-hand introduction to the historical and artistic identity shaped by a Western (but non-American) culture. Foci may include the history (people, places, ideas, events) and the arts (architecture, sculpture, literature, painting) that reflect a unique cultural identity. This ATA course may be taken in conjunction with HC 204 and/or HC 280 and may be repeated as different cultures are visited and studied.

Another Travel Option

Clarkson College initiated a collaborative academic travel experience during the 2011-12 academic year. Students from Clarkson College, Nebraska Methodist and Bryan LGH now have the opportunity to experience cultural diversity and travel as well as an international view of health care through ATA 270.

ATA 270 Special Topics in ATA

This course is a team-taught variable credit course that satisfies one to three hours of General Education credit. It offers a first-hand introduction to the history, arts and health care systems of other cultures, including at least one hospital tour for students to interact with providers and educators from another system. The course may include more than one culture and may be repeated as different cultures are visited.

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BIOLOGICAL SCIENCE

BI 122 Nutrition Science

Three semester hours

This course provides an introduction to basic nutrition information. Cultural differences in food behaviors are discussed in relationship to healthy dietary habits. The course furthers the study of nutrition as students are guided through the concepts of medical nutrition therapy (MNT). Medical nutrition therapy involves specific diseases or conditions requiring modifications of the nutritional components of the normal diet. Each modified diet has a purpose or rationale and its use is usually determined by the physician and/or dietitian.

BI 210 Microbiology (lecture and lab)

Four semester hours

Microbiology is a course designed to introduce students to microbial structure, classification and identification. The characteristics of bacterial, viral, fungal and protozoan diseases will be examined. The impact of microbiology on health care professions will be emphasized.

Prerequisite: CH 110 and BI 211 are required for undergraduate nursing majors.

BI 211 Anatomy (lecture and lab)

Four semester hours

Students will gain important concepts about human anatomy in preparation for their degree program coursework. Because knowledge of the human anatomy is essential in understanding and practicing methods used in their skill, anatomy will provide students anatomical foundation they will need to become successful as a student and a future practitioner.

BI 213 Physiology (lecture and lab)**Four semester hours**

Physiology is a rigorous course designed for students pursuing health care careers. This course will provide a foundation of basic principles necessary for pathophysiology and pharmacology, as well as the study of related health care subjects. Emphasis is placed on relating anatomy to physiology, system connections, homeostatic mechanisms and clinical applications that will impact future patients. Instructional activities in lecture and lab are integrated to facilitate the application of basic principles and critical thinking to the health care field.

Prerequisites: BI 211. CH 110 and BI 211 are required for undergraduate nursing majors.

BI 222 Basic Anatomy and Physiology**Four semester hours (three semester hours class, one semester hour lab)**

Basic Anatomy & Physiology is designed to learn important concepts about human anatomy and physiology in preparation for their degree course work. This course is an essential foundation. There are no prerequisites for the course.

BI 227 Pathophysiology**Three semester hours**

Human physiological responses to disease, stress and the environment are studied; and pathophysiological processes are analyzed to provide the scientific rationale for nursing interventions. Diagnostic and medical treatment modalities are studied in conjunction with pathological dynamics.

Prerequisites: CH 110, BI 210, BI 211 and BI 213.

BI 290 Special Topics in Biology**One to three semester hours**

This course focuses on topics of interest in specific areas of study selected by Clarkson College. The course may be repeated as different topics are offered.

BI 311 Cadaver Applications in Anatomy**Three semester hours**

The focus of this course centers on expansion of foundational knowledge learned in BI 211 Basic Human Anatomy through cadaver dissection and lecture. This course proposes to add depth and detail regarding anatomical structures and systems already familiar to the student through specific cadaver lab participation. Correlation of pertinent regional anatomy to clinical cases will be emphasized when relevant. Lecture and lab will be held at the University of Nebraska Medical Center Cadaver Lab. Course is set up as one lecture hour and two lab hours.

Prerequisite: BI 211 or equivalent.

AN 805/BI 805 Cadaver Applications in Anatomy**Three semester hours**

The focus of this graduate elective course centers on expansion of the graduate student's foundational anatomy knowledge, brought from their undergraduate and clinical experiences, through detailed cadaver dissection and lecture. Correlation of pertinent regional anatomy to clinical cases and/or areas of graduate study will be emphasized when relevant. Lecture and lab will be held at the University of Nebraska Medical Center Cadaver Lab. Course is set up as one lecture hour and two lab hours.

Prerequisite: BI 211 or equivalent.

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CHEMISTRY

CH 110 General Chemistry I (lecture and lab)

Four semester hours

This course provides an introduction to the topics of inorganic chemistry, organic chemistry and biochemistry. Topics include: atomic structure and bonding; chemical reactions; nomenclature; gases; solutions; acids; bases and buffers; the function and structure of carbohydrates; lipids; proteins and nucleic acids; metabolic pathways and energy production. Emphasis will be placed on topics that relate to health care professions.

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COMMUNICATION

CA 110 Introduction to Sign Language for Communicating with the Hearing Impaired

Three semester hours

An overview of the Beginning Signing Exact English including the development of Signing Exact English (SEE II), the history of deaf education and the strategies employed for developing expressive and receptive skills to enhance manual conversation.

CA 111 Introduction to Sign Language for Communicating with the Hearing Impaired II

Three semester hours

Continuation of CA 110, with emphasis on signing practice and refinement.

Prerequisite: CA 110 or permission of instructor.

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ENGLISH AND LITERATURE

EN 101 English Composition I

Three semester hours

This introduction to college-level writing proposes to develop individual style and voice in papers that are fully developed, well organized and grammatically accurate. This process includes invention, outline, drafting, peer review, revision and editing. Expository methods may include the abstract, comparison and contrast, cause and effect, problem solution and literary interpretation. The best writers focus on topics important to them. Therefore, within certain parameters, the student will choose the topic and point of view of each writing assignment.

EN 102 English Composition II

Three semester hours

English Composition II provides advanced instruction and practice in the art of writing. Rhetorical strategies include textual analysis, critical thinking and effective research methodologies.

Prerequisite: EN 101 or equivalent.

EN 202 Writing Advancement

This writing course emphasizes individual attention and small group activity for advancement of student writing. The focus will be on writing skills that usually need the most help: initial drafting, synthesis of ideas, revising for professionalism and American

Psychological Association (APA) style. Activities that advance these skills are paired with technological writing techniques in order to advance writing and keep it competitive within the healthcare arena.

Prerequisite: EN 101 and EN 102 or the equivalent.

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GENERAL

GEN 101 Strategies for Success

One semester hour

Strategies for Success will focus on the student who desires a successful career at Clarkson College. Topics such as time management, teaching and learning styles, finding and using information, note-taking, test-taking, reading and listening skills, decision making, getting along with others, money management and health and wellness will be explored.

Course Grade: Pass/No Pass

Prerequisite: First year students new to Clarkson College with emphasis placed on student's admitted conditionally, non-traditional LPN students, and/or students who may benefit from extended orientation to college life.

GEN 105 Medical Terminology

One semester hour

(One hour theory per week) This online course introduces the students to medical terminology utilizing word-building methodologies. The students will study various root words, prefixes, suffixes and connectors and develop their skills of analyzing, synthesizing, writing and communicating terminology pertinent to all health science-related disciplines.

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HEALTH CARE

HC 104 Core I: Effective interactions in the World of Health Care

Three semester hours

Core I: Effective interactions in the World of Health Care recognizes the complex world of health care interactions and that the evolving student-professional is an integral tool in effective exchanges in diverse settings. Students will explore their personal perspectives, values and experiences and evaluate how these influence others in the health care environment. Client-centered techniques will be developed to promote appreciation, compassion and empathy with culturally unique individuals. Student engagement in learning will be emphasized using community based activities and a required out-of-class service experience.

Note: It is recommended that Core I be completed during a student's first three semesters at Clarkson College. This is a foundation course for subsequent Core II and Core III.

HC 200 Health Care Sciences Update I

Three semester hours

This course provides a review of the structural and functional relationships of the human body. Key elements of biochemistry and cell biology will be refreshed before the review of organ systems. Special emphasis will be placed on neuroanatomy and physiology, cardiac and vascular physiology and renal physiology. Finally, the function of the immune system components during its protection of the body from pathogenic microorganisms and cancer,

during hypersensitivities autoimmune diseases and during transplant rejection will be discussed.

Prerequisite: Admission into RN to BSN program.

HC 204 Core II: A Cultural History of the Healing Arts

Three semester hours

Core II: A Cultural History of the Healing Arts positions the history of health care within a cultural framework. The course reviews the social, intellectual and cultural history of the healing arts from ancient times to the 21st century. Not limited to the Western tradition, this approach invites the student to identify and explore the people, practices, and beliefs that have shaped the healing professions. Consideration of the still-evolving role of the health-care professional includes the history of Clarkson College. Student engagement will be emphasized using a required service experience. This course can be taken on campus, online or through Academic Travel Abroad.

Prerequisite: Successful completion of Core I.

HC 205 Health Care Sciences Update II

Three semester hours

Current knowledge and insights in pathophysiological processes are analyzed to provide the scientific rationale for pharmacological advances used in today's health care environment.

Prerequisite: Admission into RN to BSN program.

HC 210 Health Care Sciences Update III

Three semester hours

This course provides a review of the basic principles of microbiology and biochemistry. The student's basic biochemistry knowledge will be expanded to include: stereochemistry, biomolecular chemistry, enzymology, pH influences, bioenergetics, metabolism, biosynthesis, amino and nucleic acids, lipids, proteins, genetic coding and pathways in cellular metabolism. The student's basic microbiology knowledge will be expanded to include the structure, function and characteristics of bacteria, viruses, fungus and protozoa.

Prerequisite: Admission into RN to BSN program.

HC 220 Gerontology

Two semester hours

This course is an introduction to the field of human aging. The course of study will include a multidisciplinary examination of the way in which human aging is viewed, how we perceive the process of growing older and how society responds to the issues and problems of aging. The class will look at aging from the perspective of the social and political sciences, biological sciences, arts and humanities, care-giving and independent living, especially with the advent of the Baby Boomers in mind.

HC 230 Community-Based Cultural Exploration

Two semester hours

This course takes the student on a journey into the Omaha-metro area (or local proximity for online students), learning about different cultures, religious faiths and ethnic populations through an immersion experience. The course is a balanced approach with reading, study and classroom activities designed to challenge one's own areas of possible bias, stereotype and limited understanding with community-based explorations through field trips, tours and guest speakers. Students must have access to transportation for off-campus activities and be willing to comply with business/professional dress code expectations as needed out of cultural respect. Activities will be connected to improving cross-cultural understanding and

communication as well as linkages to providing health care to patients of diverse backgrounds.

Prerequisite: HC 104.

HC 304 Core III: Ethical & Cultural Frontiers in U.S. Health Care

Three semester hours

Core III: Ethical & Cultural Frontiers in U.S. Health Care is designed to provide students with frameworks, concepts and professional exercises for understanding and approaching ethical issues in health care from an individual, interactional and institutional perspective. Health beliefs, health seeking behaviors and health practices within various cultural contexts will be important components to the discussion of how health care in the United States is a complex and evolving structure in our society. Student engagement in learning will be emphasized using community based activities as well as out-of-class service experience.

Prerequisites: Successful completion of Core I and Core II, second year standing in any Clarkson College degree program.

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HEALTH CARE SERVICES

The Bachelor of Science degree in Health Care Services courses are also available as General Education electives.

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MATHEMATICS

MA 101 Introduction to Algebra

Three semester hours

Basic concepts of the real number system, polynomials, first-degree equations, algebraic fractions, radicals and quadratic functions. For students needing a refresher course prior to College Algebra I.

MA 120 College Algebra

Three semester hours

Covers axioms of real and complex numbers; equations and inequalities in a variable and solutions of these systems; polynomial, exponential and logarithmic functions.

Prerequisite: Two years of high school algebra, MA 101 or permission of the instructor.

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PHYSICAL EDUCATION/ACTIVITY

PE 210 Promotion of Healthy Living

Three semester hours

An overview of the promotion of healthy living, including the determinants of healthy behavior, the models and theories that provide a framework for predicting healthy behavior, and the strategies employed to bring about behavioral changes for health and disease prevention.

PE 291 Self Defense

Two semester hours

Self defense is a state of mind as well as a set of physical skills. In this course you will learn self defense techniques and develop the self confidence and control needed to execute them properly with an appreciation for the individual's physical abilities. This course will also help to broaden your base of knowledge of violence against women, teens, and safety measures for you and your family.

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PSYCHOLOGY

PY 101 Introduction to Psychology

Three semester hours

Introduction to psychology is a course designed to acquaint students with the history, development and present status of the science of psychology. Students will be exposed to areas of behavior, cognition and learning; and special emphasis will be placed on the study of abnormal psychology and its impact on health care.

PY 200 Human Development

Three semester hours

A comprehensive exploration of the physical, psychosocial, cognitive and emotional development of individuals across their life span including the effect of culture on growth.

PY 220 Dying and Death: Perspectives for Health Care Providers

Two semester hours

This course engages students in reading, activities and field trips that promote an increased understanding of topics related to dying, death and bereavement. Recognizing the role of the health care provider in direct and supportive care of patients at end of life, this course considers the impact of dying, death and bereavement for both the patient and surrounding loved ones. Emphasis is placed on practical interventions and increasing the confidence of providers at this unique time in the lifespan. Activities may include service experience and tours of topic-related agencies. Students must actively participate in such attendance for successful completion of the course.

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SOCIOLOGY

SO 101 Introduction to Sociology

Three semester hours

Overview of the principles and methods of human behavior in groups. Includes group dynamics, cultural variation and social change.

SO 220 Medical Sociology

Two semester hours

This course introduces students to some of the main topics of medical sociology: the social construction of health and illness; inequalities in the distribution of illness and health care; the organization of health care work; the medical profession and the health care system. Students will learn about such topics as who gets sick and why; how health professions have evolved in the United States and how the health care landscape has been divided among professions; why individuals in medical occupations typically have more authority

and receive higher incomes in the U.S. than elsewhere; what the relationship is between hospitals and other health care organizations and how that relationship has changed over time.

Note: Successful completion of SO 101 or equivalent is recommended before registration for SO 220.

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SPANISH

SP 103 Spanish for the Health Care Provider-Introduction

Three semester hours

In this introductory course, students will be exposed to the basic Spanish language principles and learn practical vocabulary and insights into Hispanic cultural views on health care aimed at providing a foundation for basic conversation with Hispanic patients and family members.

SP 104 Spanish for the Health Care Provider-Conversation

Three semester hours

This course is designed to provide students with intense conversation practice and advanced vocabulary for medical personnel to improve fluency and ease of expression in successfully managing interactions with Spanish-speaking individuals.

Prerequisite: SP 103 Spanish for the Health Care Provider-Introduction

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STATISTICS

ST 310 Statistics

Three semester hours

Introduction to the fundamental principles of statistics, including the ability to describe a data set and interpret what the description of the sample says about the population as a whole. An examination of the relationship between probability, chance events and statistical tools will lead to an appreciation of the importance of statistics, both in research and in the real world.

ST 410 Advanced Statistics for Public Health Care

Three semester hours

Advanced Statistics will provide an introduction to statistical experimentation and research methods with applications to health sciences. Concepts of estimation and inferences will be covered. Systematic coverage of the more widely used statistical methods, including simple and multiple regression, single factor and multifactor analysis of variance, multiple comparisons, goodness of fit tests, contingency tables, nonparametric procedures, and power of tests. Students are expected to make a presentation in a health care field and complete a data-based project as part of the course requirement.

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