

COURSE DESCRIPTIONS HEALTH SCIENCES MAJOR HEALTH CARE ADMINISTRATION OPTION

BIO 160 - Introduction to Animal Biology (5 cr) - Anatomy, physiology, adaptation, and classification of animals; morphology and anatomy of various types of animals. Three hours lecture, three hours lab per week. Additional two-hour test sections four times during the semester.

BIO 285 - Human Physiology (4 cr) - Normal functions of organ systems in humans; fulfills the physiology requirements for biology, human development and nutritional sciences, physical education majors, and is recommended for students with preprofessional interests in medical or allied health fields. Three hours lecture, three hours lab per week. Prereq: 160; or 101 and Chemistry 101.

CHEM 105 - Fundamental Chemistry (5 cr) - (Two semester basic course) Fundamental principles and theories of chemistry, including stoichiometry, atomic and molecular structure and bonding, nuclear chemistry, thermodynamics, descriptive chemistry of nonmetals and transition metals, chemical kinetics and equilibria, introduction to organic chemistry. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: Math 90 or placement in 100 or above.

CLS 105 - Evolution of Health Care and Health Care Professions (3 cr) - Study of the history of medicine and the evolution of health care professions in the context of philosophical and cultural influences; examination of various health care systems; analysis of current health care system and health professions in the United States. 3 hrs lecture per week.

CLS 295 - Medical Terminology (2 cr) - Examination of bases of medical terms: prefixes, suffixes, roots, combined forms; terms that name the nine basic body systems and organs. 2 hrs lecture per week.

CLS 495 - Research Design and Methods in Clinical Laboratory Science (1 cr) – Apply scientific method to clinical laboratory research problems; explore research design principles; write research proposals; design research project. 1 hr lecture per week. Prereq: Admission to the professional program.

HS 105 - Survey of Common Diseases (3 cr) - This course examines major disease categories such as infectious disease, cancer, stroke, and heart disease. Basic physiology, causes, risk factors, and prevention are explored within the context of public health.

HS 350 - Leadership and Management in Health Care (3 cr) - Interdisciplinary analysis of leadership theory, including concepts of working cooperatively, effective communication, conflict resolution, fiscal responsibility, human resource development, time management, building strategic alliances, and outcomes assessment. Pre-req: CLS 105; HS 105.

HS 395 - Fundamentals of Epidemiology (3 cr) - Introduction to basic principles and methods of epidemiology and their application to health care delivery. Areas include a historical perspective of epidemiology, measures of disease occurrence and association, clinical epidemiology, disease screening, causal inference, and study design. Pre-req: HS 390; MATH 355.

HS 410 - Issues in Aging (3 cr) - Interdisciplinary focus on gerontology, outlining associated health issues and their impact on families and caregivers. Areas examined include demographics, roles and responsibilities, relationships within families, socioeconomic concerns, and barriers to health care. Pre-req: HS 390; POLI 306.

HS 490 - Interdisciplinary Perspectives in Health Care (3 cr) - Many health care situations, particularly the complex, require the expertise and contributions of a team of health care professionals. Using case studies, the student will critically analyze health care situations from the physical, psychological, socioeconomic, legal, and political standpoints, relating their impact on a variety of health care roles. Pre-req: CLS 105; HS 105; HS 390; HS 350.

HS 499 - Selected Topics in Health Sciences (1 cr) - Students will choose from a group of topics within their chosen health care option of study and will work on an independent project while under the supervision of a member of the HS faculty. Pre-req: HS 390; junior-level standing.

ACCT 210 - Introductory Financial Accounting (3 cr) - Principles, concepts, and procedures of financial accounting essential to the preparation, understanding, and interpretation of accounting information. Prereq: sophomore standing.

BUS 320 - Principles of Management (3 cr) - Theory of management. Explore different ways managers function in profit as well as not-for-profit business and industry organizations. Examine management behaviors from functional and organizational perspectives. Use current and library resources. Study language and philosophy of historical development and psychology of management.

BUS 324 - Personnel/Human Resource Management (3 cr) - Integrate daily operational activities of personnel management, such as job analysis, training, recruiting, and performance appraisal with the long-term strategic perspective of identifying and analyzing human resource issues and trends that may affect the organization and how it is managed. Includes maternity/paternity leave, lack of unskilled workers, increase in number of dual career families, provision for individuals with disabilities. Prereq: 320 or cons instr.

BUS 330 - Organizational Theory (3 cr) - Use an open system perspective to examine how managers deal with factors that affect the organization. Factors such as environment, technology, and goals should be considered by managers in determining the nature and structure of the organization. Prereq: 320.

Business Electives: 9 credits in 300 – 400 level Business Courses

CIS 110 - Object-Oriented Programming (4 cr.) - Introduction to object-oriented programming paradigm; definition and use of classes; fundamentals of object-oriented design; development of object-oriented programming language principles; coding in an object-oriented meta language; coding in a current object-oriented programming language.

ECON 211 - Principles of Microeconomics (3 cr) - Theory of producer and consumer behavior; pricing and output in competitive vs. monopoly markets; pricing and employment of labor and other resources; problems of government intervention in markets. Prereq: 210. GDR:SS1.

ECON 324 - Health Economics (3 cr.) - Apply microeconomic theory to analyze behavior of health and health care markets. Includes supply and demand of health care services, private health insurance markets, government provision of health care services and health insurance, and health care policy. Prereq: 211 or cons instr.

MATH 100 - College Algebra (3 cr) - Functions, solutions and graphs of linear and quadratic equations, inequalities and systems of equations; logarithmic and exponential functions. Prereq: 051 or suitable placement test score.

MATH 355 - Elementary Statistical Methods (4 cr) - Fundamental concepts and techniques which underlie applications to the various disciplines, including descriptive statistics; averages; dispersion; random sampling; binomial, normal, Student T, Chi-square, and F distributions; estimation and tests of hypothesis; linear regression and correlation; laboratory emphasis on sampling and applications. Prereq: 100 or a suitable placement test score.