

HEALTH INFORMATION TECHNOLOGY (HIT)

Course Descriptions

HIT 500 Economics of Healthcare 3 Credit Hours

The course will focus on the special features of healthcare as a commodity, the demand for health and medical care services, the economics explanations for the behavior of medical care providers (i.e., physicians and hospitals) and the functioning of insurance markets. Also this course will examine the role of economic justification for government involvement in the medical care system. Finally, we will use the tools we have learned to compare different healthcare systems in the world. Topics include: Production of Health, Demand for Healthcare, and Grossman Model; The Health Economics of Bads; Role of Hospitals, Physicians, Healthcare Labor Market, and The Pharmaceutical Industry; Issues surrounding insurance such as Information Asymmetry, Moral Hazard, Adverse Selection and Lemon's Markets; Government Regulation and Intervention; Comparative Health Care Systems and the impacts of the ACA on health and healthcare.

Restriction(s):

Can enroll if Class is Graduate

HIT 510 Management of Healthcare Data 3 Credit Hours

This course discusses the nature of and important statistical methods for analyzing healthcare related data. The course begins by covering the structure and semantics of coding systems used in the healthcare industry while avoiding detailed coverage of the meaning of data values. Descriptive statistical methods (graphical and numerical) that depict the central tendency and variability of data; theoretical and empirical probability distributions for discrete and continuous data; point and interval estimations of unknown parameter values; parametric and nonparametric hypothesis tests for numerical, categorical, and ordinal data; analysis of variance; and regression analysis are then covered. A statistical software package will be used to analyze healthcare data.

Restriction(s):

Can enroll if Class is Graduate

HIT 520 Clinical & Evidence Based Med 3 Credit Hours

This course is a graduate course on Evidence Based Medicine. Course content includes the evidence and causes of inconsistency in healthcare, clinical decision processes, assessment of evidence supporting both diagnostic and treatment decisions, comparing the different research methods in clinical literature, and comparing evidence-based versus traditional approaches to clinical practice.

Prerequisite(s): HIT 510

Restriction(s):

Can enroll if Class is Graduate

*An asterisk denotes that a course may be taken concurrently.

Frequency of Offering

The following abbreviations are used to denote the frequency of offering: (F) fall term; (W) winter term; (S) summer term; (F, W) fall and winter terms; (YR) once a year; (AY) alternating years; (OC) offered occasionally