HEALTH DATA ANALYTICS (HDA)

HDA 360 Applied Health Data Statistics Credits: 3
Typically Offered: Fall.
Course Description: This course emphasizes statistical analysis of clinical data, use of healthcare statistical formulas, presentation of data, and application of basic medical research principles. Students are introduced to epidemiological concepts along with examining the use of statistical analysis of clinical data in relation to long-range healthcare planning and statistical reporting. Students will utilize software statistical functions and formulas as well as formatting and organization of data for presentation. **Prerequisite(s):** A grade of C or higher in MAT 111 or MAT 111E or NUR 314 or PSY 300, ACT 201, and credit or concurrent enrollment in HIF 300, or by permission of HIM program.

HDA 450 Applied Health Data Analysis and Reporting Credits: 3
Typically Offered: Spring.
Course Description: Application of data-driven, computer-based tools and data analysis techniques which aid decision-making in healthcare. The course provides students a hands-on approach with the use of open source software and open source data. Examination of statistical methods, analytical tools and processes including data analysis, visualization, and reporting through case studies and scenarios. **Prerequisite(s):** A grade of C or higher in CSC 184 and HDA 360.

HDA 455 Applied Health Data Reporting Credits: 3
Typically Offered: Departmental Discretion.
Course Description: This course provides students an introduction as well as hands-on experience in data visualization. It introduces students to design principles for creating meaningful displays of quantitative and qualitative data to facilitate managerial decision-making. Provides an introductory level of competency on the use of several available software tools that can be used for data visualization. Allows for project-based opportunities to identify, understand, analyze, prepare, and present effective visualizations on a variety of topics. **Prerequisite(s):** A grade of C or higher in HIF 300, ACT 302 and HDA 450 or concurrent enrollment.