The background of the slide is a dense field of three-dimensional, light blue numbers (0-9) of various sizes and orientations, creating a sense of depth and data. A solid black rectangular box is positioned on the right side of the slide, containing white text.

Course Overview of Healthcare Informatics

Huaxin Song, PhD

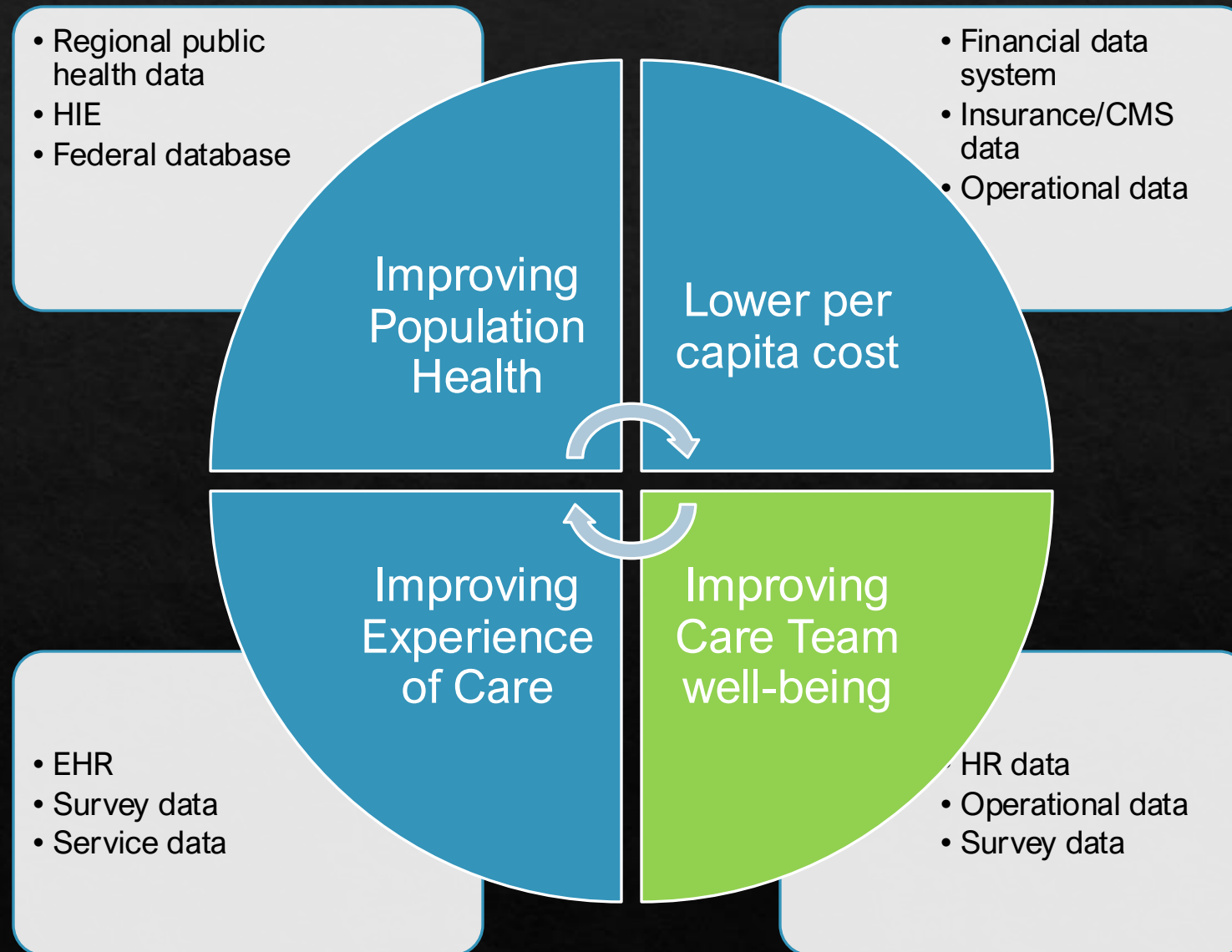
NURS 6303

Definitions Healthcare Informatics

Healthcare Informatics is originally defined as “the integration of healthcare sciences, computer science, information science, and cognitive science to assist in the management of healthcare information” (Saba & McCormick, 2015, Pg. 232). Among many definitions of Health Information or Health Information System, I picked the following definition for this course:

Health Informatics is the field that combines healthcare, information technology, and data management to improve patient care, enhance healthcare delivery, support decision-making and streamline healthcare processes. It involves **organizing**, **managing**, and **analyzing** health information effectively to enhance overall health outcomes.

From Triple Aim to Quadruple Aim



Competencies of health informatics

- ◆ Critical Thinking/Problem-solving – Module 1
- ◆ Privacy, Security, and Ethics – Module 2
- ◆ Health Systems and Processes – Module 3
- ◆ Data Management and Analytics – Module 4-6
- ◆ Health Information Technology (HIT) -- Discussion
- ◆ Communication and Leadership -- Module 13
- ◆ Research and Evaluation – Module 7-9

Other than the list above, understanding AI/ML is becoming another important competency of health informatics. -- Module 1, through out the semester

Housekeeping items

- ◆ Office Hours (Wed 7:30-8:30pm on Zoom)
 - ◆ Bi-weekly Wed evening 7:30-8:30 course content review
 - ◆ Email to schedule a visual meeting (usually would be available the same day or the next day).
- ◆ Assignment
 - ◆ APA format when you summarize and report the findings
 - ◆ Please send Dr. Song an email if you need extra time to complete the assignment. Maximum 3 days may be requested.
 - ◆ Please feel free to contact Dr. Song if you have any questions on the assignment or Rubric.

Housekeeping items

- ◆ Final Project Presentation

- ◆ Fill out the presentation outlines while we learn the modules during semester.
- ◆ You will be asked to present your final project on the last week of semester (10 minutes per presentation).

- ◆ AI Assistance

- ◆ You are encouraged to use AI for this course.
- ◆ Cite AI work using MLA format below:
 - ◆ “Text of prompt” prompt. *ChatGPT*, Day Month version, OpenAI, Day Month Year, chat.openai.com.
 - ◆ If Multiple prompts are used, please list all of them.

Any Questions?

Let's get start!