

HHS Office of the National Coordinator for Health Information Technology
ARRA Information Technology Professionals in Health Care
Curriculum Development Centers Funding Opportunity Announcement, FOA-OC-HIT-10-001

Appendix C – Health IT Workforce Curriculum Components

	<i>Category</i>	<i>Component Name</i>	<i>Component Description</i>	<i>Institution</i>	<i>Lab</i>
1	Health	Introduction to Health Care and Public Health in the U.S.	A survey of how health care and public health are organized and services delivered in the U.S. Covers public policy, relevant organizations and their interrelationships, professional roles, legal and regulatory issues, and payment systems. Must also address health reform initiatives in the U.S.	Oregon	No
2	Health	The Culture of Health Care	For individuals not familiar with health care, this course addresses job expectations in health care settings. It will discuss how care is organized inside a practice setting, privacy laws, and professional and ethical issues encountered in the workplace.	Oregon	No
3	Health	Terminology in Health Care and Public Health Settings	Explanation of specific terminology used by workers in health care and public health. Note that this is NOT a course in data representation or standards.	Alabama	No
4	IT	Introduction to Information and Computer Science	For students without an IT background, provides a basic overview of computer architecture; data organization, representation and structure; structure of programming languages; networking and data communication. Includes basic terminology of computing.	Oregon	No
5	Health IT	History of Health Information Technology in the U.S.	Traces the development of IT systems in health care and public health, beginning with the experiments of the 1950s and 1960s and culminating in the HITECH act. Introduces the concept of meaningful use.	Alabama	No
6	Health IT	Health Management Information Systems	A “theory” component, specific to health care and public health applications. Introduction to health IT standards, health-related data structures, software applications; enterprise architecture in health care and public health organizations.	Duke	No
7	Health IT	Working with Health IT Systems	A laboratory component. Students will work with simulated systems or real systems with simulated data. As they play the role of practitioners using these systems, they will learn what is happening “under the hood.” They will experience threats to security and appreciate the need for standards, high levels of usability, and how errors can occur. Materials must support hands-on experience in computer labs and on-site in health organizations.	Johns Hopkins	Yes
8	Health IT	Installation and Maintenance of Health IT Systems	Instruction in installation and maintenance of health IT systems, including testing prior to implementation. Introduction to principles underlying configuration. Materials must support hands-on experience in computer labs and on-site in health organizations.	Duke	Yes
9	Health IT	Networking and Health Information Exchange	More in-depth analysis of data mobility including the hardware infrastructure (wires, wireless, and devices supporting them), the ISO stack, standards, Internet protocol, federations and grids, the NHIN and other nationwide approaches.	Duke	No
10	Health IT	Fundamentals of Health Workflow Process Analysis & Redesign	Fundamentals of health workflow process analysis and redesign as a necessary component of complete practice automation; includes topics of process validation and change management.	Duke	No

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11	Health IT	Configuring EHRs	A practical experience with a laboratory component, addressing approaches to assessing, selecting, and configuring EHRs to meet the specific needs of customers and end-users.	Oregon	Yes
12	Health IT	Quality Improvement	Introduces the concepts of health IT and practice workflow redesign as instruments of quality improvement. Addresses establishing a culture that supports increased quality and safety. Discusses approaches to assessing patient safety issues and implementing quality management and reporting through electronic systems.	Johns Hopkins	No
13	Health IT	Public Health IT	For individuals specifically contemplating careers in public health agencies, an overview of specialized public health applications such as registries, epidemiological databases, biosurveillance, and situational awareness and emergency response. Includes information exchange issues specific to public health.	Columbia	No
14	Environment	Special Topics Course on Vendor-Specific Systems	Provides an overview of the most popular vendor systems highlighting the features of each as they would relate to practical deployments, and noting differences between the systems.	Columbia	No
15	Environment	Usability and Human Factors	Discussion of rapid prototyping, user-centered design and evaluation, usability; understanding effects of new technology and workflow on downstream processes; facilitation of a unit-wide focus group or simulation.	Columbia	No
16	Soft Skills	Professionalism/Customer Service in the Health Environment	Development of skills necessary to communicate effectively across the full range of roles that will be encountered in health care and public health settings.	Alabama	No
17	Soft Skills	Working in Teams	An experiential course that helps trainees become "team players" by understanding their roles, the importance of communication, and group cohesion.	Johns Hopkins	No
18	Soft Skills	Planning, Management and Leadership for Health IT	For those preparing for leadership roles, principles of leadership and effective management of teams. Emphasis on the leadership modes and styles best suited to IT deployment.	Alabama	No
19	Other	Introduction to Project Management	An understanding of project management tools and techniques that results in the ability to create and follow a project management plan.	Johns Hopkins	No
20	Other	Training and Instructional Design	Overview of learning management systems, instructional design software tools, teaching techniques and strategies, evaluation of learner competencies, maintenance of training records, and measurement of training program effectiveness.	Columbia	No