Introduction to Health Informatics

Career Cluster	Health Science
Course Code	14157
Prerequisite(s)	Recommend taking Medical Terminology first
Credit	1 credit
Program of Study and Sequence	Cluster course – **Introduction to Health Informatics** – Human Body Systems or capstone experience
Student Organization	Future Health Professionals (HOSA), SkillsUSA
Coordinating Work-Based Learning	Work-Based Learning
Industry Certifications	None
Teacher Certification	Health Science Cluster Endorsement; Information Technology Cluster Endorsement; Networking Systems & Information Support Pathway Endorsement
Resources	American Medical Informatics Association (AMIA) www.amia.org

Course Description:

Health Informatics is a multidisciplinary approach to automated collection, using and sharing of personal and epidemiologic health information. The Health Informatics course will introduce students to the necessary skills and knowledge to work in places such as medical groups, hospitals, clinics, health insurance organizations, research, hardware and software vendors, internet companies, and many others.

Program of Study Application

Introduction to Health Informatics is the first pathway course in the Health Science career cluster, Therapeutic Services pathway. The course would follow participation in one or more cluster courses. Completion of Introduction to Health Informatics would prepare a student to participate in further pathway courses in the Health Informatics pathway or a capstone experience.

Course Standards

HI 1: Communicate health information accurately and within legal and regulatory guidelines, upholding the strictest standards of confidentiality.

Webb Level	Sub-indicator	Integrated Content
Two Skill/Concept	HI 1.1 Apply accuracy, effectiveness and timeliness to the transfer of information.	Employ techniques for effectively communicating health/medical information within legal/regulatory guidelines.
Two Skill/Concept	HI 1.2 Summarize how legal and regulatory requirements apply to the transfer of information.	Employ techniques for effectively communicating health/medical information within legal/regulatory guidelines.
Two Skill/Concept	HI 1.3 Distinguish who in the organization needs information and when they need it.	Employ techniques for effectively communicating health/medical information within legal/regulatory guidelines.
Two Skill/Concept	HI 1.4 Organize recorded information and other documents within the Health Insurance Portability and Accountability Act (HIPAA) protocols to ensure confidentiality and privacy.	Employ techniques for confidentially communicating health/medical information in compliance with legal/regulatory guidelines.

One Recall	HI 1.5 Communicate information ensuring confidentiality of content is maintained.	Employ techniques for confidentially communicating health/medical information in compliance with legal/regulatory guidelines.

Notes

HI 2: Describe the content and diverse uses of health information.

Webb Level	Sub-indicator	Integrated Content
Two Skill/Concept	HI 2.1 Interpret and extract information from medical records and documents.	Employ techniques for effectively documenting, communicating and maintaining health information within legal and regulatory guidelines.
Two Skill/Concept	HI 2.2 Collect appropriate, accurate information including proper codes to record charges for reimbursement.	Employ techniques for effectively documenting, communicating and maintaining health information within legal and regulatory guidelines.
One Recall	HI 2.3 Identify and apply accurate medical terminology.	Employ techniques for effectively documenting, communicating and maintaining health information within legal and regulatory guidelines.
Two Skill/Concept	HI 2.4 Determine the need for requesting further clarification when transcribing/transferring information that may be unclear.	Employ techniques for effectively documenting, communicating and maintaining health information within legal and regulatory guidelines.

Two Skill/Concept	HI 2.5 Assess and apply information for regulatory and legal purposes.	Employ techniques for effectively documenting, communicating and maintaining health information within legal and regulatory guidelines.

Notes

HI 3: Demonstrate the use of systems used to capture, retrieve and maintain confidential health information from internal and external sources.

Webb Level	Sub-indicator	Integrated Content
Three Strategic Thinking	HI 3.1 Formulate and accurately document required information.	Employ techniques for effectively documenting, communicating and maintaining health information within legal and regulatory guidelines
Two Skill/Concept	HI 3.2 Interpret information that has been collected.	Employ techniques for effectively documenting, communicating and maintaining health information within legal and regulatory guidelines
Three Strategic Thinking	HI 3.3 Differentiate the purposes and audiences for whom information is collected.	Employ techniques for effectively documenting, communicating and maintaining health information within legal and regulatory guidelines
Two Skill/Concept	HI 3.4 Prepare accurate documentation for various audiences within legal and regulatory requirements, as requested.	Employ techniques for effectively documenting, communicating and maintaining health information within legal and regulatory guidelines

One Recall	HI 3.5 Disseminate information to various audiences using systems and guidelines within the facility.	Employ techniques for effectively documenting, communicating and maintaining health information within legal and regulatory guidelines
Two Skill/Concept	HI 3.6 Organize and maintain a records storage system within legal requirements and protocols.	Employ techniques for effectively documenting, communicating and maintaining health information within legal and regulatory guidelines

Notes