Skills Mapping

- 1. Industry partners define the skills required for jobs in the school's field of focus:
 - -Health Informatics
 - -Associate of Applied Science in Chemical Dependency Counseling
 - -Associate in Science: Health Science
 - -Associate of Applied Science: Human Services
 - **To define the skills required:
 - A. Identify entry level jobs requiring an AS, AAS or equivalent industry approved postsecondary degree
 - B. Summarize the tasks that are required to perform selected entry level jobs
 - C. Define the broad expertise associated with each task
 - D. Identify the specific skills associated with the expertise

**Example:

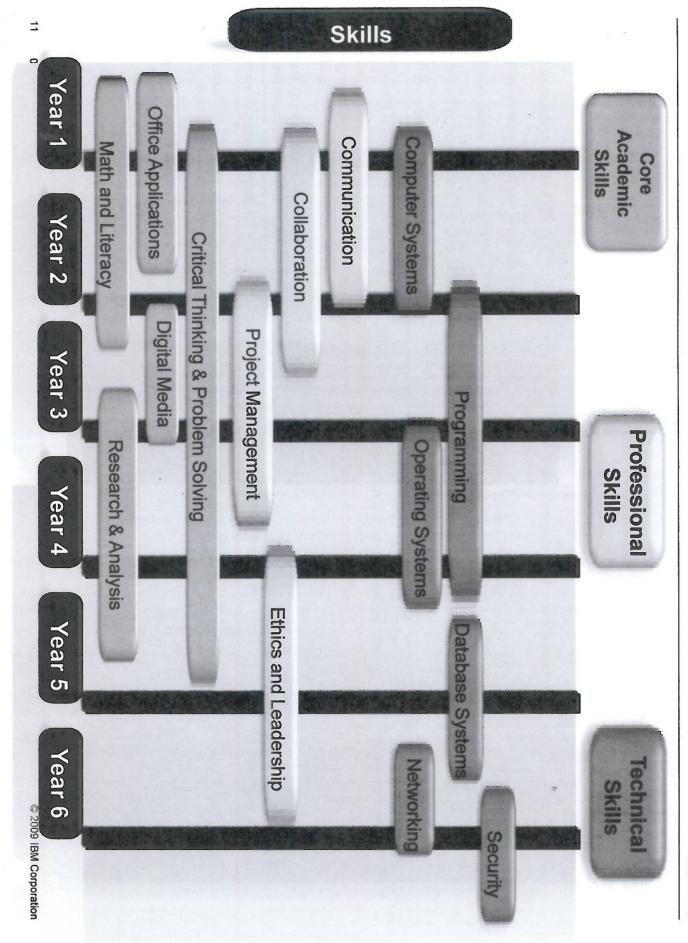
- A. Identify job- Healthcare Social Worker
- B. <u>Summarize Career Capabilities/tasks required</u>- Social workers provide individuals, families, and groups with the psychosocial support needed to cope with chronic, acute, or terminal illnesses. Services/tasks include advising family care givers, providing patent education and counseling, and making referrals for other services. May also provide care and case management or interventions designed to promote health, prevent disease, and address barriers to access healthcare.
- C. <u>Define broad expertise</u>- Therapy and Couseling, Psychology, English Language, Customer and Personal Service, Sociology and Anthropology, Education and Training, Medicine and Dentistry, Clerical, Law and Government, Philosophy and Theology, Computers and Electronics, Administration and Management, Personnel and Human Resources, Communications and Media, Public safety and security.
- D. <u>Identify Specific Skills</u>- Active Listening, Speaking, Social Perceptiveness, Critical Thinking, Coordination (adjusting actions in relation to other's actions), Reading Comprehension, Service Orientation (Actively looking for ways to help people), Writing, Complex Problem Solving, Judgement and Decision Making, Active Learning, Time Management, Instructing, Management of Personnel Resources, Science, Systems Analysis.

- High school and college leadership and faculty work with the industry partner to determine the postsecondary degrees and the specific sequence of secondary and postsecondary coursework that will provide students with the necessary skills.
 - 1. Identify AAS degree pathway
 - 2. Order skills by complexity-Technical vs. Professional skills (Documents 1&2)
 - 3. Connecting skills to courses and curricula (Document 3)
 - 4. Develop an integrated scope and sequence (Document 4)
 - 5. Providing work-based professional development for school staff
- 3. On an annual basis, revisit the Skills Mapping to ensure that it is up-to-date and that it continues to serve industry and education requirements. (Document 5)

Document 1

the Technical Support Representative role) and Business Professional (needed for Software Specialist role) Example from IBM's Skills Mapping Process: Technical and workplace skills comprising Mobile Technology expertise (needed for

Step 3: Define the broad <u>expertise</u> associated with those tasks	Step 4: Sur	Step 4: Summarize the specific skills associated with the expertise
tise (necessary for Technical	Technical Skills:	kills:
support representative):	 Identify perform implem 	Identify problems related to installation, update, configuration, operations or performance, resolve problems, advise on potential resolutions and their implementation and implementation.
	 Device the application 	applications, problem analysis, troubleshooting to be significant.
	Apply know the product	Apply knowledge of wireless networking and knowledge of features and functions of the product.
	 Apply kr other ta 	Apply knowledge of SmartPhones (android, blackberry, iPhone, Windows); iPad and other tablets, notebook computers
	Perform system p (Persona	Perform support (problem determination, trouble-shooting, incident resolution, system prep/deploy, application update, etc) to mobility devices such as PDA's (Personal Digital Assistants) nethooks mobile about 1997.
	iPhone, et al) Workplace Skills:	iPhone, et al), Palm, iPad, etc rkplace Skills:
	Advise, s Use tech	Advise, support, and guide customers customer Use technical resources and tools to answer customer's questions and respond to



Document 3



		CORREST OF STREET, STR
Skills	Corresponding Courses	Additional Resources to
Platforms:	CST 1204- Database Systems Fundamentals	IBM System 7 Mainframe
 Apply knowledge of Unix/Linux 	CST 1215- Operating Systems Fundamentals	Competitions
*Apply knowledge of Mac OSX	CST 2400- Computer Systems Management	
 Apply knowledge of storage products 	and Support	
 Apply knowledge of virtualization 	CST 2415- System Administration (UNIX/Linux)	
 Apply knowledge of Windows Operating Systems 	CST 2404- System Administration (Mindows)	
 Maintain desktops and workstations 	SAMODI (ANDION CANDIDONS)	
Project Management:	Daily work-based learning course at P-TECH	Monthly work-based learning
 Planning, organizing, securing and managing resources to bring about the successful completion of specific project goals and objectives 	with emphasis on project-based learning School-wide team challenges	team projects at P-TECH
 Project Tracking/Reporting/Delivery ProcessPlan ProjectsManage Project ChangeManage Cost/Revenue 		
Business Process Modeling:	Virtual Enterprise course at P-TECH	Internships
 Apply existing business processes to support business mission, ensure consistency, and measure effectiveness. 	Work-Readiness Seminars	
 Seek out opportunities to introduce process improvements, optimize attainment of key metrics and eliminate redundancy. 		
 Drive to achieve client objectives. 		
 Ensure business processes are in place to support achievement of objectives. 		

Sample Work-Based Learning Scope and Sequence Overview

Theme Core Standards Professional Skills Professional Skills	Vear 1 Intro to Information Rechnology Build awareness about how to use critical thinking and teamwork to solve problems and improve lives; Build awareness about what information technology really means. Communication, Accountability, Critical Thinking Office Applications, Digital Wedia, Programming Fundamentals	Year 2 Problem-Solving in the Workplace Explore how information technology can solve a problem in the community; Explore careers in information technology Explore Management, Adaptation, Research & Analysis Computer Systems, Programming, Circuits	Year 3 Work Readiness for IT Fields Prepare to be successful in an information technology work environment. Technical Writing, Innovation and Creative Problem-Solving Mobile Technology, Digital Control, Data Management		Year 4 Leadership in the Workplace Prepare to be successful in an information technology work environment; Develop an education and/pr career pathway. Work-Readiness, Ethics, Leadership Database Systems, Operating Systems, Electronics
Sidits	Office Applications, Digital Media, Programming Fundamentals	Computer Systems, Programming, Circuits	Mobile Technology, Digital Control, Data Management		Database Systems, Operating Systems, Electronics
Outcomes	Quarterly group projects and presentations Portfolio of projects, graded rubrics, and written reflections	Quarterly group projects and presentations (or team competitions) Portfolio of projects, graded rubrics, and written reflections Gateway Presentation	Group project Product/web design concept Individual research project/presentation	20	Research project or Internship
Assessments	Project Rubrics Portfolio	Project Rubrics Gateway Presentation	Project Rubrics Portfolio	AC 0/000	Mastery Exams of Technical Maste Skills Skills Cours
Ongoing Activities	Mentoring, Job Shadowing; Worksite Tours; Guest Speakers; Team project; Externship	Mentoring, Job shadowing; Worksite Tour; Guest Speakers; Externships.	Mentoring, Worksite Tour, Career Fair with Industry Coalition; College visit with mentors; Guest Speakers		Mentoring, Internship or Independent Research; Independent Research; Independent Research; Develop Resumes; Mock Interviews; Guest Speakers as needed Mentoring, Internship or Independent Research;

Annual Review

