

# PROJECT BASED LEARNING IN CAREER PATHWAY COURSES

<b>Project Title: Create a Health Care Facility</b>		
<b>Teacher(s): Laurie Hund-Schieber</b>	<b>Email: lhund@elkhart.k12.in.us</b>	<b>Date: July 25, 2016</b>
<b>Course(s): Medical Assisting</b>		<b>Level(s): 11-12 grade</b>
<b>Project Days:</b>		<b>Instructional Time: 8:00-11:00am and 12:05-2:35pm</b>
<b>PROJECT DESCRIPTION</b>		
<p><b>Challenging Problem or Driving Question:</b> <i>How do you apply teamwork skills and knowledge of healthcare delivery systems and standards to create a facility and its policies for the care of a population?</i></p> <p><i>Your community is responsible for designing a healthcare facility including the policies and staffing to meet the health and safety needs of a population.</i></p> <p><i>Your community was recently awarded a grant to establish a health care facility. As a member of the community wellness committee, your group is responsible to create an efficient and quality health care facility.</i></p> <p><i>The grant money will cover the cost of the building, furniture and supplies for the facility. You are given a one-million-dollar yearly payroll budget and you need to incorporate all aspects of establishing and maintaining a business that cares for a population.</i></p> <p><i>You must work as a group to design a quality health facility and then to establish protocol (rules, policies and budget ) to establish the facility and to keep it running smoothly and effectively.</i></p> <p><i>Following tasks must be accomplished for your facility design</i></p> <ol style="list-style-type: none"> <li><i>1. Use time wisely and cooperate as productive team members</i></li> <li><i>2. Name, logo and mission statement of facility</i></li> <li><i>3. Levels of care, building design and layout</i></li> <li><i>4. Staffing, chain of command, and salaries</i></li> <li><i>5. Payroll budget and rationale if over or under the budget of one million dollars</i></li> <li><i>6. Quality of care points</i></li> <li><i>7. Rules and policies for employees and patients</i></li> </ol> <p><i>Format results and present to class</i></p> <ul style="list-style-type: none"> <li>● <b>CTE Technical Prompt:</b> knowledge about health care delivery and levels of care; professional responsibilities and educational qualifications and wages; what constitutes high quality care;</li> <li>● <b>Literacy Prompt:</b> Graphic design/interpretation; formatting reports; research into health careers; assessing reliable resources; designing report format;</li> <li>● <b>Math Prompt:</b> Designing a budget; military time and shift configuration; ratio for staffing for quality caregiving; salary computations, ie., hourly/salary/monthly distribution; analyzing charts and graphs; creating hierarchy levels for chain of command;</li> <li>● <b>Science Prompt:</b> Recognizing care needs of populations; Human Development and age appropriate strategies to meet their needs; knowledge of health care needs including prevention, pathology, diagnosis and treatment of diseases; awareness of emerging trends in health care; ethics and bioethics;</li> <li>●</li> </ul>		

- **21<sup>st</sup> Century Prompt: Teamwork, Conflict management; Delegation; Time management; Attendance; Responsibility; Accountability; Communication; Employability Skills**

## ESSENTIAL STANDARDS

### CTE Technical Standards:

HSE1-2.1 Interpret verbal and nonverbal communication

HSE1-2.2 Recognize barriers to communication

HSE1-2.5 Apply speaking and active listening skills

HSE1- 2.8 Recognize elements of written and electronic communication

HSE1-3.1 Describe the healthcare delivery system

HSE1-3.2 Explain factors influencing health care delivery systems

HSE1-3.3 Describe responsibilities of consumers within health care system

HSE1-3.4 Explain the emerging issues on health care delivery systems

HSE1-3.5 Discuss common methods of payment for healthcare

HSE1-4.1 Classify personal traits and attitudes desirable in a member of the healthcare team

HSE1-4.2 Summarize professional standards as they apply to hygiene, dress, language, confidentiality and behavior

HSE1-4.4 Discuss levels of education, credentialing requirements, and employment trends in healthcare

HSE1-4.5 Compare careers within the health science career pathways

HSE1-6.2 Recognize ethical issues and their implications related to healthcare

HSE1-6.5 Recognize respectful and empathetic treatment of ALL patient/clients (customer service)

HSE11-3.1 Describe the chain of command in specific work environments

### Literacy Standards:

11-12.RT.4: Determine meaning of symbols, key terms, and other domain-specific words and phrases

11-12.RT.7 Integrate and evaluate multiple sources of information presented in diverse formats and media in order to answer a question or solve a problem

11-12.RT.9: Synthesize information from range of sources into coherent understanding of a process or concept, resolving conflicting info when possible.

11-12. WT.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose and audience.

11.12.WT.6 Use technology to produce, publish and update individual or shared writing products in response to ongoing feedback, including new arguments or info.

### Math Standards:

HSE1-1.32 Analyze diagrams, charts, graphs, and tables to interpret healthcare results

HSE1-1.33 Record time using the 24 hour clock

Create a budget for a given healthcare facility

Compare education levels, income and occupational outlook for various healthcare occupations

Use measurements to create facility layouts

### Science Standards:

HSEI-1.22 Recognize emerging diseases and disorders

HSE1-7.22 Apply safety techniques in the work environment

HSE1-7.9 Apply principles of basic emergency response in natural disasters and other emergencies.

HSE1-9.11 Apply behaviors that promote health and wellness

HSE1-9.13 Discuss complementary (alternative) health practices as they relate to wellness and disease prevention.

HSE11-2.5 Analyze the stages of growth and development

### 21<sup>st</sup> Century Standards:

HSE1-8.1 Define roles and responsibilities of team members

HSE1-8.2 Recognize characteristics of effective teams

HSE1-8.3 Recognize methods of building positive team relationships

HSE1-8.4 analyze attributes and attitudes of an effective leader

HSE1-8.4 Apply effective techniques for managing conflict

**DESIGN PROCESS**

**Step 1: Ask/Inquire**

**Entry Event and Project Launch**

*Tour a variety of local healthcare facilities to assess their layout designs and services offered at each facility. Students interview office manager/representative with key questions to help with their “need to knows”. Offer opportunities for students to make contacts with the community representatives for follow up questions or clarifications they may need during the project.*

**What will you do during this phase of the process?**

*Brainstorming sessions about health care facilities*

*Setting up tours/transportation; Give guidelines and grading rubric; creating groups and discussing group dynamics and conflict management skills; Supplies and Materials laid out. Orientation to computer lab.*

**Step 2: Imagine**

**What will my students do during this phase of the process? List student work & its assessment.**

*Activity: Know and Need to Knows brainstorming to create workshops*

*Assess prior knowledge: Discuss qualities of effective teams; Do compass activity.*

**Step 3: Plan**

**What will my students do during this phase of the process? List student work & its assessment.**

*Students contemplate what type of facility they want to design. Create groups either by interest or who they want to work with. Delegate roles to team members. Group contract. Present names of group and topic to teacher. Graphic Design teacher or student to give advice about logos.*

**Step 4: Create**

**What will my students do during this phase of the process? List student work & its assessment.**

*Start working on project with time for workshops and scaffolding activities. Divide tasks into timelines for submitting first drafts.*

**Step 5: Experiment/Evaluate**

**What will my students do during this phase of the process? List student work & its assessment.**

*Use Tuning Protocol for feedback. Receive teacher feedback from first drafts.*

**Step 6: Improve**

**What will my students do during this phase of the process? List student work & its assessment.**

*Review grading rubric and guidelines. Open discussion on progress. Possible community contact to come into class for feedback on projects and opportunity for questions.*

**Step 7: Communicate**

**What will my students do during this phase of the process? List student work & its assessment.**

*students present final project to class members and possible community resource. (Advisory Board Members)*

**STUDENT EVALUATION**

**Rubric(s)** *Facility Project grading rubric*

**Assessment** Students take notes on each other's presentation and use rubric to assess if all of the points are identified and meets standards of project.

**INSTRUCTOR REFLECTION**

**What went well?** Students were engaged and had good team cooperation to complete the project. The **What we know and What we need** chart was a good strategy. The tour was helpful and served as a model as well as good introduction to their career plans. Showcasing at the adv. Board meeting was excellent.  
**What could be improved?** The budget idea needed to be clarified. Students spent more time on the design  
**How will you modify this project for next time?** The budget should be labeled payroll. More time allotted for design of building, might involve the CAD class. Add different facility tour. Add more to google documents for students to share directly to me instead of hard copies of rubrics and such.

**SUPPORTING MATERIALS**

**Equipment/Technology:** computers, software such as powerpoint, Prezi, Excel, Word  
**Materials:** paper, posters, markers, glue  
**Human Resources:** Facility managers, guest speakers, community and career center contacts  
**Other**

**ADDITIONAL COMMENTS**

(Optional)

**Thinking like a Professional: The Professional Notebook (optional)**

What are the essential components of the Professional Notebook students will keep for this project?

How will you use the Professional Notebook to assess the work on this project?