

Medical Lab Technology

ELO Title: Medical Lab Technology

School: Hillsboro-Deering High School

Essential question: How can I expand my knowledge of medical lab technology and explore whether or not I am suited for a career as a medical lab technician?

Area(s) of study: Technology

Type & amount of credit: 0.5 Elective Credit

Competencies:

Short description	Full text of competency
<i>Acquiring Information</i>	<p>ACQ 1 - I can <u>determine the central idea</u> of a source by providing an accurate summary of how key events or ideas develop over the course of the text.</p> <p>ACQ 2 - I can <u>gather evidence</u> by selecting the most significant and relevant facts from a variety of sources presented in <u>diverse formats and media</u>.</p> <p>ACQ 3 - I can <u>integrate multiple pieces of information</u> in order to address a question, solve a problem or to support analysis, reflection, and research.</p>
<i>Analyzing Information</i>	<p>ANA 1 - I can <u>evaluate a primary source</u> to determine how its intended audience, author's point of view, purpose and historical context impact its meaning.</p> <p>ANA 2 - I can <u>compare and contrast</u> the similarities and differences of elements within a topic in order understand the relationships that exist.</p> <p>ANA 3 - I can <u>analyze</u> the factors that went into <u>making a decision</u> and evaluate its effectiveness in order to develop my own problem solving skills.</p>
<i>Connecting Information</i>	<p>CON 1 – I can organize and interpret the <u>chronological sequence of events</u>, determining the changes over time and if any cause and effect connections exist.</p> <p>CON 2 – I can demonstrate how key events and ideas <u>connect to broader central themes</u> or concepts, including connections to other disciplines.</p> <p>CON 3 – I can draw inferences by reinterpreting events in terms of what might have happened and from <u>connections with current, real world events</u>.</p>
<i>Communicating</i>	<p>COM 1 - I can <u>write responses</u> by developing a precise claim that</p>

Short description	Full text of competency
<i>Information</i>	<p>is supported by relevant evidence and explaining by insightful reasoning.</p> <p>COM 2 – I can initiate and participate effectively in a range of collaborative discussions with peers, expressing my ideas clearly and persuasively.</p> <p>COM 3 – I can present information and my findings, conveying a clear and distinct perspective, in a range of formats, including visual and digital media.</p>

Student Activities:

1. Complete volunteer training at the hospital.
2. Complete a minimum of 60 hours volunteering in the medical lab of Valley Regional Healthcare in Claremont, NH.
3. Become CPR-certified.
4. Complete activities and research at the lab. Some examples are:
 - Shadowing a lab technician in order to understand a typical day
 - Observing the process of taking a blood sample
 - Setting the patient at ease
 - Finding a vein
 - Inserting the needle
 - Collecting the sample in a test tube
 - Observing how blood and urine are tested in the lab
5. Complete at least two online medical lab technology classes offered by the Centers for Disease Control: www.cdc.gov/labtraining. Get prior approval from the ELO Coordinator before beginning the courses. The student chose to complete online courses in Microscopic Blood Examination and The Components of Blood.
6. Keep track of your hours and reflections in a logbook and take pictures of your volunteer activities for your presentation.

Community partner: Volunteer coordinator at small local hospital

Community partner responsibilities for this ELO: The community partner set up this ELO under the auspices of the hospital’s volunteer program. The student was required to complete volunteer training and become CPR certified. He was able to rotate his ELO experience beyond the medical lab and observe technicians in the Emergency Room and on patient floors.

Assessment: The student made a presentation to the ELO Committee describing what he had learned and how he met the competencies of the course. ELOs at our high school are graded pass/fail.

Connection to student’s measureable postsecondary goals: This ELO helped the student decide that a career as a phlebotomist was the right one for him. He loved working in a small hospital where he was a member of a team who appreciated his desire to learn and who had the time to spend on mentoring him.

Comments and suggestions for other schools implementing a similar ELO: The keys to a successful ELO are a dedicated mentor and a motivated student who really wants to learn about the topic. This student had a busy sports schedule throughout the school year, but he was able to complete his ELO hours at the hospital over the summer and during vacation.

Are you willing to be contacted by another school interested in developing something similar to this?

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Supporting material:

Student's ELO Presentation

Photos or student work submitted:

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