

Health Science II – Allied Health Careers - HTC 441

Allied Health Careers prepares students for post-secondary study in a variety of health-related career fields. Students will explore, through a series of guided lab activities, careers in dental, veterinary medicine, medical assisting, clinical lab, diagnostic imaging and emergency medicine. Specific units on medical law and ethics, aseptic procedures, medical terminology, and medical office procedures are paired with significant opportunities for student specific, independent study. Students pursuing the Medical Assisting track must meet additional requirements of the clinical site and Huot Center. Space is limited for this option. If interest exceeds capacity of the clinical site the Huot Administration, in consultation with the program instructor and clinical partner, will select the students based on alignment to long-term career goals, demonstrated academic success within Health Science and a personal interview. Three college credits for Medical Terminology through Central Maine Community College.

Transfer Goals:

- Students will clearly communicate content and information in a manner that is appropriate to the audience and setting.
- Students will understand different health care models
- Students will thoughtfully reflect on their work and interactions in order to adapt and improve their methods and practices, as necessary.

Enduring Understandings:

- Personal choices impact current and long-term outcomes on individuals, family, and society.
- Recognizing risk factors and applying risk reducing strategies can prevent health consequences.
- Knowledge of the major structures and their functions found in each of the major body systems is linked directly to health and quality of life.
- Ability to understand, read, and speak medical terminology.

Essential Questions:

- How have past health care practices influenced current healthcare trends?
- How does one use the health care continuum?
- Why are interpersonal communication skills critical in health-care delivery?
- How are medical words broken down?

Course Highlights

- Curriculum replicates experiences of an actual medical office environment.
- High level of customization possible based on student interest.
- Students eligible for field-site experience.

Course Outcomes

- Ability to sit for CCMA through the NHA
- Medical Terminology- College Course through CMCC (3 credits)

CAREER PATHWAY PLAN OF STUDY		
<u>Career Pathways</u>	<u>College Pathways</u>	<u>Professional Certifications</u>
Surgical Technologist	Community College System of NH: Dental Assisting Dental Hygiene Diagnostic Medical Sonography Health Fitness Professional Health Information Management Legal Nurse Consultant Medical Assistant Medical Coding Medical Laboratory Technician Nursing	*Basic Life Support for Health Care Workers
Medical Sales Rep		*CMCC – Medical Terminology – 3 college credits
Tissue/Organ Procurement & Transplantation Technician		*CMCC - Law and Ethics for the Medical Profession - 3 college credits
Laser/Endoscopic Technician		*Adult, Child, Infant CPR & First Aid Certification
Materials Manager		
Anesthesia Technician		
Educator		
Surgical First Assistant		
Surgical Nurse		
Surgeon’s (Physician’s) Assistant		

Anesthesiologists/Surgeon Admitting Clerk Community Services Specialist Data Information Manager Health Information Coder Medical Assistant Medical Information Technologist Medical Secretary Medical Office Management Patient Financial Services Representative Pharmacy Technician Reimbursement Specialist Transcriptionist	Occupational Therapy Assistant Orthopedic Technology Paramedic Emergency Medicine Phlebotomy Physical Therapist Assistant Radiation Therapy Respiratory Therapy Surgical Technology Veterinary Assistant Veterinary Technology	*Certified Clinical Medical Assisting Certification through the NHA. See center for information on grade and age requirements. * <i>Certification may be earned through this CTE program</i> <hr/> <u>Embedded Credits (in addition to the Elective credit – see below) (currently for Laconia High School students)</u> <input type="checkbox"/> <u>Science Elective</u>
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- Suggested Academic Preparation**
- Health Science I (mandatory)
 - Algebra II or Technical Based Math
 - Biology
 - Chemistry
 - Anatomy & Physiology
 - Introduction to Psychology
 - Advanced Writing
 - Communications
 - Health Related Fitness

CURRICULUM and ASSESSMENT MAP - Health Science II- Allied

Instructional Unit	NH Competency Alignment	Assessments
Preparing for Practicum Experience	Professional Behavior and Practices- Students will understand, utilize, and model employability skills to enhance employment opportunities and job satisfaction. Students will understand and describe legal and ethical responsibilities, limitations, and implications on healthcare worker actions. Employ effective time and project management strategies to	Resume Portfolio Mock Interview Job Shadowing

	complete work efficiently and proficiently.	
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Medical Terminology	Use correct terminology, vocabulary and appropriate language to communicate effectively in the workplace.	Worksheets on using medical abbreviations, interpreting word parts Internet search on disease specific med terms/origins Weekly quizzes on Chapters
Anatomy and Physiology	Academic Foundation- Students will demonstrate understanding of anatomy, physiology, common diseases and disorders, and principles of medical math applications as they understand the importance of becoming lifelong learners in healthcare.	Review worksheets on basic structure of the human body and body planes, directions, and cavities History and Physical Exam Prescription Medication Research/Poster Project Quiz on related med terms Practical skills applicable to each individual body system
Human Growth and Development	Communication- Students will be able to identify roles and responsibilities of individual members as part of the healthcare team. Students will learn the importance of making human connections by demonstrating methods of delivering and obtaining information while communicating effectively to diverse populations. Students will understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment.	Life Stages Research Project Death and Dying/Grieving Process/Hospice Care Research/Presentation Chapter Quiz
Wellness and Nutrition	Safety and Health Practices- Students will understand and identify existing and potential hazards to clients, co-workers, and self. Students will employ and model safe work practices and healthy behaviors. They will follow health and safety policies and procedures to prevent illness and injury. Students will be able to differentiate between wellness and disease while promoting disease prevention.	Therapeutic Diets in Health Care Group Project Chapter workbook Quiz on related med terms Chapter Quiz Interactive group evaluation, games and activities
Legal and Ethical Issues	Professional Behavior and Practices- Students will understand, utilize, and model employability skills to enhance employment opportunities and job satisfaction. Students will understand and describe legal and ethical responsibilities, limitations, and implications on healthcare worker actions.	Case Studies and workbook questions Ethical Dilemmas

<p>Communication and Cultural Diversity</p>	<p>Communication (Leadership and Teamwork)- Students will be able to identify roles and responsibilities of individual members as part of the healthcare team. Students will learn the importance of making human connections by demonstrating methods of delivering and obtaining information while communicating effectively to diverse populations. Students will understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment.</p>	<p>Case studies and research project of specific cultures</p>
<p>Safety in the Workplace</p>	<p>Safety and Health Practices- Students will understand and identify existing and potential hazards to clients, co-workers, and self. Students will employ and model safe work practices and healthy behaviors. They will follow health and safety policies and procedures to prevent illness and injury. Students will be able to differentiate between wellness and disease while promoting disease prevention.</p> <p>Demonstrate awareness strategies to safely work in a variety of workspaces and locations.</p>	<p>Clinical and written evaluations</p>
<p>BLS with AED</p>	<p>Technology Skills, Systems, and Information Applications- Students will understand, identify, and appropriately apply skills and knowledge of how key systems operate that are commonly required across all health career specialties, and how they affect quality of care and services performed.</p> <p>Select and safely use appropriate tools, supplies, and equipment for a specific task or set of tasks.</p>	<p>BLS Certification course</p>
<p>Body Mechanics, Preventing accidents and injuries</p>	<p>Safety and Health Practices- Students will understand and identify existing and potential</p>	<p>Complete effective body movements while moving and assisting patients.</p>

	<p>hazards to clients, co-workers, and self. Students will employ and model safe work practices and healthy behaviors. They will follow health and safety policies and procedures to prevent illness and injury. Students will be able to differentiate between wellness and disease while promoting disease prevention.</p> <p>Demonstrate awareness strategies to safely work in a variety of workspaces and locations.</p>	Written evaluation on movements
Personal Protective Equipment and Hand washing	<p>Safety and Health Practices- Students will understand and identify existing and potential hazards to clients, co-workers, and self. Students will employ and model safe work practices and healthy behaviors. They will follow health and safety policies and procedures to prevent illness and injury. Students will be able to differentiate between wellness and disease while promoting disease prevention.</p> <p>Demonstrate awareness strategies to safely work in a variety of workspaces and locations.</p>	<p>Practical application checklist and demonstration of skills</p> <p>Worksheets</p> <p>NHA Exam</p>
Sterilizing and Disinfection in the Healthcare environment	<p>Safety and Health Practices- Students will understand and identify existing and potential hazards to clients, co-workers, and self. Students will employ and model safe work practices and healthy behaviors. They will follow health and safety policies and procedures to prevent illness and injury. Students will be able to differentiate between wellness and disease while promoting disease prevention.</p> <p>Demonstrate awareness strategies to safely work in a variety of workspaces and locations.</p>	<p>Practical application checklist and demonstration of skills</p> <p>Worksheet</p> <p>NHA exam</p> <p>Sterile Fields</p> <p>Sterile Gloving</p>
Medical Office Procedures	Technology Skills, Systems, and Information Applications-	Practical application checklist and demonstration of skills

	<p>Students will understand, identify, and appropriately apply skills and knowledge of how key systems operate that are commonly required across all health career specialties, and how they affect quality of care and services performed.</p> <p>Employ effective time and project management strategies to complete work efficiently and proficiently.</p>	Online EHR simulator
Vital signs and initial outpatient care examination	<p>Academic Foundation- Students will demonstrate understanding of anatomy, physiology, common diseases and disorders, and principles of medical math applications as they understand the importance of becoming lifelong learners in healthcare.</p> <p>Select and safely use appropriate tools, supplies, and equipment for a specific task or set of tasks.</p>	<p>Practical application checklist and demonstration of skills</p> <p>Completion of written assignments</p>
<p>Specialty Laboratory Tests</p> <p>Hematology, Venipuncture, EKG, Phlebotomy</p> <p>Basic Microbiology</p>	<p>Academic Foundation- Students will demonstrate understanding of anatomy, physiology, common diseases and disorders, and principles of medical math applications as they understand the importance of becoming lifelong learners in healthcare.</p> <p>Technology Skills, Systems, and Information Applications- Students will understand, identify, and appropriately apply skills and knowledge of how key systems operate that are commonly required across all health career specialties, and how they affect quality of care and services performed.</p> <p>Select and safely use appropriate tools, supplies, and equipment for a specific task or set of tasks.</p>	<p>Practical application checklists</p> <p>Written and clinically based evaluations.</p>

Students will always start the year with a review of basic fundamental skills learned in year one as an assessment of where they are in terms of starting year two.

Additional Year 2 Activities: Students participate in job shadows, field site experience and in class research in Allied Health / Biomedical careers.