MEDICAL CAREERS AND HEALTH SYSTEMS

INDUSTRY SECTOR: Health Science and Medical Technology Sector

PATHWAY: Patient Care

CALPADS TITLE: Introduction to Patient Care

CALPADS CODE: 7920

HOURS:

Total	Classroom	Laboratory/CC/CVE
180	147	33

JOB TITLE	O*NET CODE	JOB TITLE	O*NET CODE
Physician Assistants	29-1071.00	Nursing Assistants	31-1014.00
Orderlies	31-1015.00	Medical Assistants	31-9092.00

COURSE DESCRIPTION:

This course builds on the basic principles of medical science, terminology, and vocabulary needed to work in the healthcare field. Students will focus on ethical and legal responsibilities of the health care worker, safety, medical terminology, human anatomy and physiology, body systems and mechanics, standard precautions and health and fitness. Also included are health care delivery systems, regulatory agencies, research, current technology, and socio-economic issues affecting health care. Students explore career opportunities in therapeutic, diagnostic, and supportive areas. Students gain practical hands-on experience in vital signs, emergency medical care, first aid, and will obtain their Basic Life Support for Healthcare Provider (CPR and AED) certification.

A-G APPROVAL: G

ARTICULATION: None

DUAL ENROLLMENT: None

PREREQUISITES:

Prerequisite
None

METHODS OF INSTRUCTION

- Direct instruction
- Group and individual applied projects
- Multimedia
- Demonstration
- Field trips
- Guest speakers

STUDENT EVALUATION:

- Student projects
- Written work
- Exams
- Observation record of student performance
- Completion of assignment

INDUSTRY CERTIFICATION:

- AHA Basic Life Support for Healthcare Provider (CPR and AED) Certification

RECOMMENDED TEXTS:

- DHO: Health Science Workbook by Louise M Simmers, Karen Simmers-Nartker, Sharon Simmers-Kobelak Cengage Updated 8th edition/2017
- DHO: Health Science by Louise M Simmers, Karen Simmers-Nartker, Sharon Simmers-Kobelak Cengage Updated 8th edition/2017

PROGRAM OF STUDY:

- None identified

I.	INTRODUCTION AND ORIENTATION	CR	Lab/ CC	Standards
	• Demonstrate awareness of course objectives and competencies • Demonstrate an understanding of course requirements and student expectations • Demonstrate awareness of the industry standards and career opportunities	3	0	**Academic:** LS: 11-12.1, 11-12.2 **CTE Anchor:** Responsibility and Flexibility: 7.4, 7.7 **CTE Pathway:** B12.4
II.	**HEALTH CARE SYSTEMS**	**CR**	**Lab/ CC**	**Standards**
	• List the different types of healthcare delivery systems (public, private, government, non-profit) and identify their facilities and services • Compare healthcare facilities in terms of their impact on patient care • Describe the role of regulatory agencies in regulation and accreditation • Discuss common methods of payment for healthcare • Compare and contrast the main elements of common health insurance plans • Explain the importance of organizational structure in health care facilities • Discuss current trends in health care	5	0	**Academic:** LS: 11-12.2 WHSST: 11-12.8 **CTE Anchor:** Responsibility and Flexibility: 7.1, 7.2 Technical Knowledge and Skills: 10.1 **CTE Pathway:** B1.1
III.	**HEALTHCARE PROFESSIONALS**	**CR**	**Lab/ CC**	**Standards**
	• Explain the intent and importance of the National Health Care Skill Standards (NHCSS) • Identify the core knowledge and skills necessary for all health care workers • Describe the personal and professional characteristics and attitudes required in health occupations	5	0	**Academic:** LS: 11-12.1, 11-12.2 **CTE Anchor:** Communications: 2.4, 2.5 Career Planning and Management: 3.1, 3.4 Responsibility and Flexibility: 7.2 **CTE Pathway:** B12.2
IV.	**ETHICS AND LAW FOR HEALTHCARE PROFESSIONALS**	**CR**	**Lab/ CC**	**Standards**

	• Understand what is meant by “ethical behavior” and its implications and practices in the health care industry
	• Explain the Health Insurance Portability and Accountability Act (HIPAA) and what it means for healthcare professionals in relation to:
	  • Patient Safety & Security
	  • Privacy
	• Define and discuss sexual harassment in the workplace and as it applies to health care workers, including reporting and resolution
	• Summarize the right of the patient in relation to receiving health care
	• Demonstrate professional standards for dealing with patients in an ethnically diverse society
	• Identify the signs of elder and child abuse and describe current reporting procedures
		5	0	**Academic:**
				LS: 11-12.1, 11-12.2
				RSIT: 11-12.4
				CTE Anchor:
				Ethics and Legal Responsibilities: 8.3, 8.4, 8.7
				CTE Pathway:
				B5.1, B6.4, B6.6

V.	**MEDICAL TERMINOLOGY**	**CR**	**Lab/ CC**	**Standards**

	• Define prefixes, suffixes, word roots and combining forms • Create the adjective or noun form of commonly used medical terms • Create the plural form of commonly used medical terms • Recognize, identify and use approved medical abbreviations • Spell and pronounce medical terms correctly • Spell and define terms related to body structure and body systems • Use a medical dictionary • Select and apply correct medical terminology in workplace situations	20	0	**Academic:** LS: 11-12.1, 11-12.2, 11-12.4 **CTE Anchor:** Technical Knowledge and Skills: 10.1 **CTE Pathway:** B5.5, B5.6, B5.7, B5.2, B5.3, B5.4, B5.1
VI.	**ANATOMY AND PHYSIOLOGY**	**CR**	**Lab/ CC**	**Standards**

	• List and describe the main functions of the following body systems:
	  • skeletal system
	  • muscular system
	  • cardiovascular system
	  • respiratory system
	  • digestive system
	  • urinary system
	  • nervous system
	  • eyes and ears
	  • integumentary system
	  • genitourinary system
	  • immune system
	  • endocrine system
	  • reproductive system
	  • body structure
	• Identify and diagram the organs within each body system
	• Describe the function of the organs within each body system and explain their relationship to the organism as a whole
	• Classify and describe the basic structural and functional elements and organization of the human body (tissue, organ, systems)
	• Demonstrate knowledge of how body systems are integrated and function together in a healthy body
	• Recognize and use body planes and directional terms
	• Describe the physiology of each of the body systems and explain common diseases and disorders.
	• Label and describe the basic function of each cell component and the relationship of cells to tissues, organs, and systems
		30	10	**Academic:**
				LS: LS1, LS1.A, LS1.B, LS1.C, LS1.D
				CTE Anchor:
				Technical Knowledge and Skills: 10.1
				CTE Pathway:
				B2.3, B2.1, B2.2, B2.4

VII.	**BIO-SAFETY/STANDARD PRECAUTIONS**	**CR**	**Lab/ CC**	**Standards**
	• Identify the different types of microbes and describe their effects • Explain the difference between pathogenic and non-pathogenic microbes • Describe the basic principles of infection control • Explain the meaning of asepsis and describe medical asepsis measures • Understand and apply the CDC recommended Standard Precautions • Describe the chain of infection • Recognize hand washing as the first defense in the chain of infection • Differentiate between antisepsis, disinfection, and sterilization • Demonstrate the use of appropriate procedures, equipment, and supplies in accordance with Standard Precautions for infection control • Explain what is meant by isolation, describe the conditions that require these measures, and identify transmission-based precautions • Describe what is meant by hazardous waste and the appropriate disposal procedures	10	5	**Academic:** LS: 11-12.3 WHSST: 11-12.4 LS: LS1, LS1.B, LS1.A **CTE Anchor:** Health and Safety: 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8 **CTE Pathway:** B10.1, B10.2, B10.3, B10.4, B10.5, B10.6, B10.7
VIII.	**BODY MECHANICS/PATIENT SAFETY**	**CR**	**Lab/ CC**	**Standards**

	• Explain the main principles of body mechanics:
	  • Stable center of gravity
	  • Wide base of support
	  • Line of gravity
	  • Proper body alignment
	• Demonstrate correct application of body mechanics techniques in completing physical tasks safely and efficiently
	• Understand and demonstrate the principles of patient safety and accident prevention in moving and repositioning patients
		8	2	**Academic:**
				LS: LS1.A, LS1
				CTE Anchor:
				Problem Solving and Critical Thinking: 5.4, 5.5
				Health and Safety: 6.4, 6.5, 6.6
				CTE Pathway:
				B8.1, B8.2, B8.3, B8.4, B8.5

IX.	**HEALTH AND FITNESS**	**CR**	**Lab/ CC**	**Standards**

	• Define health and disease
	• Describe strategies for positive health and the prevention of disease including:
	  • A balanced diet with an adequate caloric intake
	  • Efficient elimination
	  • Regular exercise
	  • Adequate sleep, rest periods, and relaxation periods
	  • Regular medical checkups
	  • Regular dental checkups
	  • Maintenance of good posture
	  • Good grooming habits
	• Differentiate between health and fitness
	• Discuss complementary (alternative) health practices as they relate to wellness and disease prevention
	• Define nutrition and list elements of good nutrition and a balanced diet
	• Identify common conditions and diseases with nutritional implications and/or causes
	• Construct specialty diets for special needs patients
	• Describe the long term effects of the diet on health maintenance
		10	5	**Academic:**
				LS: 11-12.1, 11-12.2
				WS: 11-12.4
				LS: LS1.B, LS1, LS1.A
				CTE Anchor:
				Health and Safety: 6.6
				Technical Knowledge and Skills: 10.1
				CTE Pathway:
				B9.2

X.	**VITAL SIGNS**	**CR**	**Lab/ CC**	**Standards**

	• Explain and demonstrate how to accurately record and assess vital signs using a variety of manual and electronic devices:
	  • temperature
	  • pulse
	  • respiration
	  • blood pressure (systole, diastole)
	• Differentiate between normal and abnormal ranges for:
	  • Adult
	  • Child
	  • Infant
	• Explain the importance of reporting abnormal readings
	• Identify environmental and emotional factors that could affect vital signs
		10	5	**Academic:**
				LS: LS1.A, LS1, LS1.D
				CTE Anchor:
				Technology: 4.3
				Technical Knowledge and Skills: 10.1
				CTE Pathway:
				B2.3, B2.4, B3.1, B7.1, B7.2

XI.	**EMERGENCY MEDICAL CARE AND CPR**	**CR**	**Lab/ CC**	**Standards**

	• Explain the importance of fire safety in a healthcare setting and demonstrate knowledge of evacuation policies and procedures
	• Describe the principles, elements, and agencies of basic emergency service (EMS) and response systems
	• Explain the Good Samaritan Law
	• Describe and demonstrate basic first aid procedures for:
	  • Bleeding and wounds
	  • Shock
	  • Poisoning
	  • Burns
	  • Heat exposure
		6	4	**Academic:**
				LS: 11-12.1, 11-12.2, LS1.A, LS1
				CTE Anchor:
				Health and Safety: 6.4, 6.5, 6.6
				Technical Knowledge and Skills: 10.1, 10.5
				CTE Pathway:

	• Cold exposure • Bone and joint injuries • Sudden illnesses including: heart attack, stroke, fainting, convulsions, diabetic reactions • Achieve certification in CPR for infant, child, and adult • Describe the processes and precautions necessary in the application of dressings and bandages			**CTE Pathway:** B7.2, B10.4, B10.5
XII.	**GROWTH AND DEVELOPMENT**	**CR**	**Lab/ CC**	**Standards**
	• Describe the physical, mental, emotional and social developments that occur in the seven main stages of life • Explain Maslow's Hierarchy of Needs and its implications for human behaviors • Identify the physical changes of aging on each body system • Identify the stages of death and dying and the role of the health care worker in each stage • Justify the importance of respecting cultural and religious difference in the death process	10	0	**Academic:** LS: 11-12.1, 11-12.2 WS: 11-12.2 LS: LS1, LS1.B **CTE Anchor:** Communications: 2.4, 2.5 Technical Knowledge and Skills: 10.1 **CTE Pathway:** B2.2
XIII.	**WEIGHTS AND MEASURES**	**CR**	**Lab/ CC**	**Standards**
	• Recognize and identify the symbols of the different weight and measurement systems used in healthcare • Use appropriate tools/instruments to accurately measure weight, length, liquid volume and time including standard and metric systems • Convert common measurements within and between metric and standard systems • Use military/international time	3	2	**Academic:** A-SSE: 2b, 2 **CTE Anchor:** Problem Solving and Critical Thinking: 5.2 Technical Knowledge and Skills: 10.1 **CTE Pathway:** B3.1, B3.2, B3.3
XIV.	**EMPLOYMENT LITERACY**	**CR**	**Lab/ CC**	**Standards**
	• Identify available positions in the industry through the use of the internet and other industry-specific means. • Complete an application form correctly • Prepare a written resume • Participate in a simulated employment interview • Prepare a portfolio	10	0	**Academic:** LS: 11-12.1, 11-12.2 **CTE Anchor:** Communications: 2.5 Career Planning and Management: 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.9 Demonstration and Application: 11.2, 11.5 **CTE Pathway:** B12.1, B12.2
XV.	**PERSONAL SKILLS RELATED TO EMPLOYMENT**	**CR**	**Lab/ CC**	**Standards**

	• Demonstrate promptness, attend class regularly, and follow absence notification procedures • Develop and maintain acceptable working relations • Demonstrate the ability to manage time wisely • Demonstrate a positive and cooperative attitude • Demonstrate values of honesty and integrity • Demonstrate respect for others • Dress in a professional manner according to industry standards • Demonstrate appropriate personal hygiene/grooming, and dress • Demonstrate responsibility by exerting a high level of effort and working toward a goal	3	0	**Academic:** LS: 11-12.1, 11-12.2 **CTE Anchor:** Ethics and Legal Responsibilities: 8.2, 8.3, 8.4 Demonstration and Application: 11.1, 11.2, 11.4, 11.5 **CTE Pathway:** B12.2, B12.1
XVI.	**INTERPERSONAL SKILLS AND GROUP DYNAMICS**	**CR**	**Lab/ CC**	**Standards**
	• Recognize defense mechanisms • Identify socio-cultural factors that affect healthcare • State the attitudes of the elderly toward illness and healthcare • Discuss the importance of family interaction • Demonstrate the ability to work as a member of a team • Identify proper procedures for handling harassment • Demonstrate leadership skills by working independently, making appropriate decisions, working well with others, and accepting constructive criticism	3	0	**Academic:** LS: 11-12.1, 11-12.2 **CTE Anchor:** Responsibility and Flexibility: 7.2, 7.3, 7.7, 7.8 **CTE Pathway:** B6.2, B13.1, B13.3
XVII.	**THINKING AND PROBLEM SOLVING SKILLS**	**CR**	**Lab/ CC**	**Standards**
	• Utilize problem-solving techniques • Understand logical reasoning • Demonstrate creative thinking • Participate in decision making • Demonstrate the ability to interpret information correctly	3	0	**Academic:** LS: 11-12.1, 11-12.2 **CTE Anchor:** Problem Solving and Critical Thinking: 5.2, 5.3, 5.4, 5.6 **CTE Pathway:** B9.6, B12.1, B13.5
XVIII.	**COMMUNICATION SKILLS**	**CR**	**Lab/ CC**	**Standards**
	• Demonstrate effective verbal and written skills • Read technical journals and write technical reports using appropriate terminology • Listen attentively, follow directions, and relay directions to others • Demonstrate the ability to research and retrieve information	3	0	**Academic:** LS: 11-12.1, 11-12.2 **CTE Anchor:** Communications: 2.1, 2.4, 2.5, 2.6 Technology: 4.2 **CTE Pathway:** B5.1, B5.2, B5.4, B7.3