Health Science 2 - Pacing Guide

Unit Topic	Pace	SC Health Science I Standard(s)	Activities
1. Embedded Throughout Whole Curriculum		 Teamwork Medical Terminology Analyze charts, graphs, tables Medical writing Medical ethics HOSA Communication case studies 	
2.Communications & Teamwork Demonstrate methods of delivering and obtaining information while communicating effectively. Identify roles and responsibilities of individual members as part of the healthcare team.	3 weeks	Distinguish subjective and objective information. Recognize and interpret elements of written and electronic communication (spelling, grammar, formatting, and confidentiality). Prepare examples of technical, informative and creative writing. Document, report, and communicate in a straightforward, understandable, accurate, and timely manner (such as: how to correct errors, read labels, report information and data, and provide hand-off reports). Apply and practice active speaking and listening skills. Identify and Adapt communication styles to accommodate common	Subjective vs objective observations Medical documentation HIPPA laws

barriers to communication in healthcare.

- a. Physical disabilities
- Aphasia Hearing loss
- Impaired vision
- Developmental level
- b. Psychological barriers
- Attitudes
- Bias
- Prejudice
- Stereotyping

Modify communication to meet the needs of the patient/client and be appropriate to the situation.

Describe appropriate interactions with patients throughout various stages of psychosocial development.

Interpret common medical abbreviations to communicate information.

Demonstrate appropriate use of digital communication in a work environment, such as email, text, and social media.

Act responsibly as a team member, including gaining practice employing leadership skills when acting as team leader.

Collaborate with others to formulate team objectives and accomplish team goals utilizing the characteristics of effective teamwork.

Apply effective techniques for managing team conflict.

Apply principles of teamwork. **Evaluate** why teamwork is an important part of healthcare and how it improves patient care.

3. Academic Foundation Understand human anatomy, physiology, common diseases and disorders, and medical math principles.	8 weeks	Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results. Demonstrate competency in basic math skills and conversions as they relate to healthcare. a. The Metric System, i.e. centi-, milli-, deci-, micro-, and kilo- b. Mathematical (average, ratios, fractions, percentages, addition, subtraction, multiplication, division). c. c. Conversions (height, weight/mass, length, volume, temperature, household measurements) d. Perform mathematical applications to determine vital sign applications and basic pharmacology equations. Identify basic levels of organization of the human body. Identify the major human body systems, their basic function and associated diseases. Identify directions and planes of the body. Describe biomedical therapies as they relate to the prevention, pathology, and treatment of disease. Gene testing Gene therapy Cloning Stem cell research	 2 weeks - Basic Math Skills Metric & English Conversions Basic Math Vital signs Basic pharmacology 6 weeks - Human Anatomy Levels of organization Human body systems Special emphasis on immune system Diseases and disorders (see NCHSE stds) Biomedical therapies (see NCHSE stds)
---	---------	--	--

4. Systems	2 weeks		
,		Explain factors influencing healthcare	1. Factors affecting delivery system
Identify how key systems		delivery systems. (Example: Affordable	2. Payment & reimbursement
affect services performed		Care Act, aging populations etc.)	3. Consumer responsibilities and bill of rights
and quality of care.		Discuss common methods of payment	4. Emerging issues and effect of systems
and quarry of the c		for healthcare.	w zmerging issues and errore or systems
		a. Private health insurance plans	
		b. Managed Care	
		 Health Maintenance 	
		Organization (HMO)	
		 Independent Practice 	
		Association (IPA)	
		 Preferred Provider 	
		Organization (PPO)	
		c. Government programs	
		d. Affordable Care Act (ACA)	
		 Medicaid 	
		 Medicare 	
		Tricare	
		 Workers' Compensation 	
		Analyze healthcare economics and	
		related terms.	
		 The history and role of health 	
		insurance and	
		employer/employee benefits	
		Fundamental terms related to	
		health insurance	
		o Claim	
		o Coinsurance	
		o Co-payment	
		o Fraud	
		o HIPAA	
		o Premium	
		o Deductible	
		3. Examine the healthcare consumer's	
		rights and responsibilities within the	
		healthcare system.	
		a. Self-advocacy	
		b. Compliance	
		c. Patient's Bill of Rights	
		<u> </u>	<u> </u>

		4. Assess and explain the impact of emerging issues such as technology, epidemiology, genetics, bioethics, and socioeconomics on healthcare delivery systems.	
5. Legal Responsibilities Describe legal responsibilities, limitations, and implications on healthcare worker actions.	3 weeks	Explain practices that could result in malpractice, liability, and/or negligence (to include civil law, and criminal law. Summarize laws governing harassment, labor, and scope of practice. 1. Abuse 2. Assault 3. Battery 4. Contract 5. Invasion of privacy 6. Libel 7. Malpractice 8. Negligence 9. Slander 10. Tort Apply procedures for accurate documentation and record keeping (for example, legally correcting errors on medical records, etc.) Describe and apply standards for safety, privacy, and confidentiality of the Health Insurance Portability and Accountability Act (HIPAA privileged communication). Describe advance directives, informed consent and explore the Patient's and Residents Bill of Rights. Summarize the essential characteristics of a patient's basic rights within a healthcare setting. Differentiate informed and implied consent.	 Healthcare law & infractions Legal requirements for medical records Advance directives Ethical issues Incident reports Stages of death and dying

6. Ethics Understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment.	2 weeks	Explain laws governing harassment. Describe the concept of scope of practice. Utilize procedures for reporting activities and behaviors that affect the health, safety, and welfare of others (incident report). Differentiate between ethical and legal issues impacting healthcare. • Recognize and identify ethical and legal issues and their implications related to healthcare (such as organ donation, in vitro fertilization, euthanasia, scope of practice, ethics committee, etc.) Discuss bioethical issues related to healthcare. Apply ethical behaviors in healthcare including personal, professional, and organizational ethics. Discuss and utilize procedures for reporting activities and behaviors that affect health, safety, and welfare of others (such as an incident report) Identify stages of death and dying.	
7. Safety Practices Identify existing and potential hazards to clients, co-workers, and self. Employ safe work practices and follow health and safety policies	4 weeks	Explain principles of infection transmission. Describe mode of transmission to include common vehicle (air, food, water), direct, healthcare-associated infections (nosocomial), indirect, vectors, opportunistic.	 Different hazards and their signs Preventing injury Infection control Regulations relating to safety First Aid Procedures / BLS / Stop the Bleed

and procedures to prevent	Differentiate methods of controlling	
injury and illness.	the spread and growth of	
injury and inness.	microorganisms. (aseptic vs. sterile	
	technique, antisepsis, disinfection,	
	sterilization, standard vs. transmission-	
	based precautions, and blood-borne	
	pathogens).	
	Asepsis	
	i. Sanitization	
	ii. Antisepsis	
	iii. Disinfection	
	iv. Sterile technique	
	v. Sterilization	
	Standard precautions	
	i. Handwashing	
	ii. Gloving	
	iii. Personal Protective	
	Equipment (PPE)	
	iv. Environmental cleaning	
	* 1 ··	
	Isolation precautions i. Transmission-based contact	
	BI II II	
	Bloodborne pathogen precautions	
	Vaccinations	
	Apply personal safety procedures	
	based on Occupational Safety and	
	Health Administration (OSHA) and	
	Centers for Disease Control (CDC)	
	regulations	
	Demonstrate principles of body	
	mechanics and patient safety during	
	transfers, ambulation, and positioning.	
	i. Ambulating	
	ii. Lifting	
	iii. Positioning	
	Demonstrate and apply the use of	
	personal protective equipment (PPE).	
2 weeks		1. Demonstrate and practice recording:

8. Technical Skills			a. Height & weight
		Demonstrate procedures for	b. Blood pressure
Apply and demonstrate		measuring and recording vital signs	c. Temperature
technical skills and		including recognition	d. Pulse & respirations
knowledge common to		of normal ranges, data interpretation,	e. Eye charts
health career specialties.		reporting of abnormal values, and	·
		documentation of values received.	
		 Blood pressure 	
		 Temperature 	
		 Oxygen saturation 	
		• Pain	
		• Pulse	
		Respirations	
		Apply s kills to obtain Heartsaver or	
		BLS training or certification in adult,	
		child, and infant cardiopulmonary	
		resuscitation (CPR) and automated	
		external defibrillator (AED).	
		Demonstrate special health care skills	
		as needed in the medical field for	
		several different career paths, such as, but not limited to, Laboratory, Dental,	
		Medical Assisting, Nurse Assisting,	
		Physical Therapy, Patient Care	
		Technician, Allied Health occupations	
		or Office Management/Business and	
		Accounting. The specific skills and care	
		paths chosen may differ as to the	
		teacher's professional certification	
		area.	
	1 wools	Discuss physical, mental, social and	1. Discuss healthy habits
9. Health Maintenance	1 week	behavioral development and its impact	· ·
9. Health Maintenance Practices		on healthcare.	2. Discuss disease prevention strategies3. Investigate different health practices
Tractices		on nearchearer	5. Investigate different health practices
Differentiate between			
wellness and disease.			
Promote disease			
Fromote disease			

prevention and model healthy behaviors.			
10. Information Technology Applications Apply information technology practices common across health professions.	3 weeks	Identify records and files common to the healthcare setting including electronic health record - EHR). Diagnostic tests History and physical Medications Patient demographics Progress notes Treatment Plan Identify and differentiate types and content of health records (including EHR), i.e. patient, pharmacy, laboratory, radiology, etc. Recognize technology applications in healthcare including file storage. Create documentation in the health record (EHR/MHR) that reflects timeliness, completeness, and accuracy while adhering to information systems policies and procedures at the local, state, and national and organizational level Use health record data collection tools (such as input screens, document templates) Understand the principle and demonstrate the appropriate methods to correct inaccurate information/errors personally entered into EHR/MHR, such as adding, clarifying, and correcting information.	 Discuss appropriate use of different communication technologies Discuss medical record and file organization Discuss different types of technology used in healthcare. Evaluate validity of web-based resources

		Explore different types of health record data collection tools such as patient • Medical wearable devices • Patient monitoring equipment • Phone application • Telemedicine/telehealth Identify common policies and procedures for proper access, disclosure and protection of personal information such as: passwords, administrative safeguards, database security. • Apply fundamentals of privacy and confidentiality policies and procedures (HIPAA). • Adhere to information systems policies, procedures, and regulations as required by national, state, and local entities. (Such as: Health Information Technology Act [HITECH Act], American Recovery and Reinvestment Act [ARRA]). • Describe the consequences of inappropriate use of health data in terms of disciplinary action.	
11. Employability Skills Use employability skills to enhance employment opportunities and job satisfaction.	2 weeks	Participate in job-based scenarios (role play, case studies, job shadowing) that allow for application of personal traits, attitudes, and employability skills desirable in a member of the healthcare team. (such as: dealing with the tardy employee,	 Discuss employability and soft skills Evaluate levels of credentialing Create sample resume and cover letter Fill out job application Create portfolio

satisfying the unhappy patient, conflict resolution with a fellow team member) **Demonstrate** process and strategies for obtaining and retaining employment, (proper use of social media, personal networking, soft skills, job sites, internships).

Develop and expand components of a personal portfolio (letter of introduction, resume, healthcare project, writing sample, work-based learning, oral presentation, service learning, credentials, technology, and leadership experience).

Showcase personal traits, attitudes, and employability skills desirable in a member of the healthcare team through participation in healthcare work-based learning experiences (guest speakers, virtual tours, job shadowing, virtual job shadowing, blood drives, community service projects, HOSA, etc.).

- Chain of command
- Communication Skills
- Decision making
- Flexible
- Organization
- Problem Solving
- Scope of practice
- Time Management
- Work Ethic

Expand upon components of a personal portfolio (letter of introduction, resume, healthcare project, writing sample, work-based learning, oral presentation, service learning, credentials, technology, and leadership experience).

Demonstrate professional and leadership skills by participating in experiences through a career and technology student organization (CTSO) like SC HOSA Future Health Professionals (whether as a member or as a participant in a HOSA sponsored event).	