South Carolina CTE

Health Science Clinical Study (2025)

Standard

ACADEMIC FOUNDATIONS: Review and apply human anatomy, physiology, common diseases and disorders, and medical math principles prior to students participating in their assigned clinical experience. 1

Medical Mathematics

1. Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare. 1.3.1
    1. Metric system 1.3.1.1
    2. Basic medical math 1.3.1.2
    3. Conversions 1.3.1.3
2. Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results. 1.3.2
3. Demonstrate use of the 24-hour clock/military time. 1.3.3

COMMUNICATIONS: Demonstrate methods of delivering and obtaining information, while communicating effectively during the clinical experience. 2

1. **Concepts of Effective Communication in the clinical setting.** 2.1
    1. Model verbal and nonverbal therapeutic communication. 2.1.1
        1. Active listening 2.1.1.1
        2. Reflecting 2.1.1.2
        3. Silence 2.1.1.3
        4. Summarizing 2.1.1.4

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2 Identify common barriers to communication. 2.1.2

a Physical disabilities 2.1.2.A

1 Aphasia 2.1.2.A.1

2 Developmental level 2.1.2.A.2

3 Hearing loss 2.1.2.A.3

4 Impaired vision 2.1.2.A.4

b Psychological barriers 2.1.2.B

1 Attitudes 2.1.2.B.1

2 Bias 2.1.2.B.2

3 Prejudice 2.1.2.B.3

4 Stereotyping 2.1.2.B.4

c Language barriers 2.1.2.C

3 Distinguish between subjective and objective information. 2.1.3

4 Interpret elements of the communication process using sender-message-receiver feedback model. 2.1.4

5 Modify communication to meet the needs of the patient/client and to be appropriate to the situation. 2.1.5

6 Describe appropriate interactions with patients throughout various stages of psychosocial development. 2.1.6

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2 Medical Terminology 2.2

1 Use common roots, prefixes, and suffixes to communicate information. 2.2.1

2 Interpret common medical abbreviations to communicate information. 2.2.2

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3 Written Communication Skills 2.3

1 Use proper elements of written and electronic communication (spelling, grammar, and formatting). 2.3.1

2 Prepare examples of technical and informative writing. 2.3.2

3 Demonstrate appropriate use of digital communication in a work environment, such as email, text, and social media. 2.3.3

SYSTEMS: Discuss how key systems affect services performed and quality of care in relation to the clinical experience that students are assigned. (Th to

3 SYSTEMS: Discuss how key systems affect services performed and quality of care in relation to the clinical experience that students are assigned. (This may become clear to students after their participation in the clinical experience). 3

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participation in the clinical experience). 3

EMPLOYABILITY SKILLS: Use employability skills to enhance employment opportunities and job satisfaction. 4

1 **Personal Traits of the Health Professional** 4.1

1 Review personal traits and attitudes desirable in a career ready member of a health team. 4.1.1

2 Summarize professional standards as they apply to hygiene, dress, language, confidentiality, and behavior. 4.1.2

2 **Employability Skills** 4.2

1 Apply employability/soft skills in healthcare during the clinical rotation. 4.2.1

1 Chain of command 4.2.1.1

2 Communication skills 4.2.1.2

3 Customer service 4.2.1.3

4 Decision making 4.2.1.4

5 Emotional intelligence 4.2.1.5

6 Flexible 4.2.1.6

7 Organization 4.2.1.7

8 Problem solving 4.2.1.8

9 Scope of practice 4.2.1.9

10 Time management 4.2.1.10

11 Work ethic 4.2.1.11

3 **Career Decision-making** 4.3

1 Distinguish differences among careers within a health science pathway. 4.3.1

1 Biotechnology research and development 4.3.1.1

2 Diagnostic services 4.3.1.2

3 Health Informatics 4.3.1.3

4 Support services 4.3.1.4

5 Therapeutic services 4.3.1.5

4 **Employability Preparation** 4.4

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1 Continue to develop components of a personal portfolio. 4.4.1

1 Community service / Service learning 4.4.1.1

2 Identify strategies for pursuing employment. 4.4.1.2

3 Employer websites 4.4.1.3

4 Internships 4.4.1.4

5 Personal networking 4.4.1.5

6 Social media 4.4.1.6

LEGAL RESPONSIBILITIES 5

1 Legal Practices (Review Prior to Clinical Rotations) 5.1

1 Apply standards for safety, privacy, and confidentiality of health information. 5.1.1

1 HIPAA 5.1.1.1

2 Privileged communication 5.1.1.2

2 Describe Advance Directives. 5.1.2

3 Summarize the essential characteristics of a patient's basic rights within a healthcare setting. 5.1.3

4 Differentiate informed and implied consent. 5.1.4

5 Describe the concept of scope of practice. 5.1.5

6 Interpret procedures for reporting activities and behaviors that affect the health, safety, and welfare of others (incident report). 5.1.6

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2 Apply and discuss experiences through work-based learning opportunities that students are currently participating in. 5.2

ETHICS: Review and apply accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment prior to the clinical experience. 6

1 Work-based learning experience 6.1

1 Apply real life experiences through the work-based learning opportunity in which students are currently participating. 6.1.1

2 Discuss and expand on experiences that students may have questions about. 6.1.2

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2 Cultural, Social, and Ethnic Diversity 6.2

1 Discuss religious, social, and cultural values as they impact healthcare. 6.2.1

1 Ageism 6.2.1.1

2 Ethnicity 6.2.1.2

3 Gender 6.2.1.3

4 Race 6.2.1.4

5 Religion 6.2.1.5

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2 Demonstrate respectful and empathetic treatment of all patients/clients/families. 6.2.2

1 Civility 6.2.2.1

2 Customer service 6.2.2.2

3 Patient satisfaction 6.2.2.3

SAFETY PRACTICES: Identify existing and potential hazards to clients, co-workers, and self. Employ safe work practices and follow health and safety policies and procedures to prevent injury and illness. 7

1 Infection Control 7.1

1 Review the principles of infection transmission. 7.1.1

2 Describe characteristics of microorganisms. 7.1.2

1 Aerobic 7.1.2.1

2 Anaerobic 7.1.2.2

3 Non-pathogenic 7.1.2.3

4 Pathogenic 7.1.2.4

3 Recognize the chain of infection. 7.1.3

4 Review of the modes of transmission 7.1.4

1 Common vehicles (air, food, water) 7.1.4.1

2 Direct 7.1.4.2

3 Healthcare-associated infections (nosocomial) 7.1.4.3

4 Indirect 7.1.4.4

5 Opportunistic 7.1.4.5

6 Vectors 7.1.4.6

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5 Recognize and review methods of controlling the spread and growth of pathogens. 7.1.5

1 Asepsis 7.1.5.1

2 Antisepsis 7.1.5.2

3 Disinfection 7.1.5.3

4 Sanitization 7.1.5.4

5 Sterile technique 7.1.5.5

6 Sterilization 7.1.5.6

7 Standard precautions 7.1.5.7

8 Environmental cleaning 7.1.5.8

9 Gloving 7.1.5.9

10 Handwashing 7.1.5.10

11 Personal Protective Equipment (PPE) 7.1.5.11

12 Isolation precautions 7.1.5.12

13 Transmission-based contact 7.1.5.13

14 Bloodborne pathogen precautions 7.1.5.14

15 Vaccination 7.1.5.15

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2 Personal Safety 7.2

1 Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations. 7.2.1

2 Demonstrate principles of body mechanics during patient care. 7.2.2

1 Ambulating 7.2.2.1

2 Lifting 7.2.2.2

3 Positioning 7.2.2.3

3 Demonstrate and apply the use of Personal Protective Equipment (PPE). 7.2.3

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3 Environmental Safety 7.3

1 Apply safety techniques in the work environment. 7.3.1

1 Ergonomics 7.3.1.1

2 Patient/client/employee safety measures 7.3.1.2

3 Safe operation of equipment 7.3.1.3

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4 Common Safety Hazards 7.4

1 Observe all safety standards related to the occupational exposure to hazardous chemicals standard (Safety Data Sheets [SDS]). 7.4.1

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2 Comply with safety signs, symbols, and labels. 7.4.2

5 **Emergency Procedures and Protocols** 7.5

1 Practice fire safety in a healthcare setting. 7.5.1

2 Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols). 7.5.2

1 Review and apply existing and potential hazards to clients, co-workers, and self. 7.5.2.1

2 Employ safe work practices and follow health and safety policies and procedures to prevent injury and illness. 7.5.2.2

TEAMWORK: Recognize methods for building positive team relationships. 8

1 **Analyze attributes and attitudes of an effective leader.** 8.1

1 Characteristics 8.1.1

1 Focused and driven 8.1.1.1

2 Interpersonal skills 8.1.1.2

3 Motivates and inspires 8.1.1.3

4 Organized and balanced 8.1.1.4

2 **Evaluate why teamwork is an important part of healthcare and how it improves patient care.** 8.2

1 Review and apply roles and responsibilities of individual members as part of the healthcare team. 8.2.1

2 Discuss the experience of working as a team member during the assigned clinical experience. 8.2.2

Health Maintenance Practices: Differentiate between wellness and disease. Promote disease prevention and model healthy behaviors 9

1 **Healthy Behaviors** 9.1

1 Differentiate between wellness and disease. 9.1.1

2 Promote disease prevention and model healthy behaviors. 9.1.2

1 Exercise 9.1.2.1

2 Nutrition 9.1.2.2

3 Relationships 9.1.2.3

4 Sleep Habits 9.1.2.4

5 Weight Control 9.1.2.5

3 Discuss how stress and anxiety can play a role in wellness and disease 9.1.3

1 Stress management 9.1.3.1

4 Discuss and demonstrate activities that may decrease stress and anxiety 9.1.4

2 **Describe public health strategies for prevention of disease.** 9.2

1 Immunizations 9.2.1

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2 Medical, dental, and mental health screenings 9.2.2

3 Routine physical exams 9.2.3

4 Self-care behaviors 9.2.4

TECHNICAL SKILLS: Apply and demonstrate technical skills and knowledge common to health career specialties. 10

1 **Technical Skills:** 10.1

1 Demonstrate procedures for measuring and recording vital signs in both normal and abnormal ranges - including but not limited to: 10.1.1

1 Blood Pressure 10.1.1.1

2 Temperature 10.1.1.2

3 Pulse 10.1.1.3

4 Respirations 10.1.1.4

5 Height and weight 10.1.1.5

6 Pain 10.1.1.6

2 Obtaining training or certification or renewal in the following. 10.1.2

1 Automated external defibrillator (AED) 10.1.2.1

2 BLS Cardiopulmonary resuscitation (BLS- CPR) 10.1.2.2

3 First aid 10.1.2.3

4 Foreign body airway obstruction (FBAO) 10.1.2.4

5 Responding to emergencies such as performing first aid or CPR/AED skills. 10.1.2.5

3 Additionally, students in career ready credential pathways will follow the objectives of the agency/vendor/post-secondary institution where they are enrolled. 10.1.3

INFORMATION TECHNOLOGY IN HEALTHCARE: Apply information technology practices common across health professions. 11

1 **Key principles, components, and practices of health information systems (HIS)** 11.1

1 Identify components of an electronic health record (EHR) and/or electronic medical record (EMR). 11.1.1

1 Diagnostic tests 11.1.1.1

2 History and physical 11.1.1.2

3 Medications 11.1.1.3

4 Patient demographics 11.1.1.4

5 Progress notes 11.1.1.5

6 Treatment plan 11.1.1.6

2 Explore different types of health data collection tools. 11.1.2

1 Medical wearable devices 11.1.2.1

2 Patient monitoring equipment 11.1.2.2

3 Phone apps 11.1.2.3

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3. Create electronic documentation that reflects timeliness, completeness, and accuracy. 11.1.3
4. Examine information systems policies, procedures, and regulations as required by national, state, and local entities. 11.1.4
    1. Facility policies 11.1.4.1
    2. HIPAA 11.1.4.2
    3. Medical coding 11.1.4.3
    4. Social media 11.1.4.4