Correlation of

DHO: Health Science, Updated, 8/E,
by Louise Simmers/ Karen Simmers-Nartker, © 2017,
ISBN: 9781305509511

to

South Carolina
Health Science
Health Science 1 - 5550

Correlation to South Carolina's Career and Technology Education – Health Science
Health Science 1 - 5550
DHO: Health Science, Updated, 8/E,
by Louise Simmers/ Karen Simmers-Nartker, © 2017,
ISBN: 9781305509511
National Geographic Learning | Cengage

COMPETENCY/OBJECTIVE	PAGE REFERENCES
HEALTH SCIENCE 1 - 5550	
Foundation Standard 1: Academic Foundation Healthcare professionals will know the academic subject matter, including medical math principles, required for proficiency within their area. They will use this knowledge as needed in their role. The following accountability criteria are considered essential for students in a health science program of study.	
1. **Describe** healthcare history and medical advances.	5-17
2. **Identify** components and solve computations of the metric and household systems of measure.	351-356
3. **Calculate** mathematical conversions of temperature and weights and measures related to healthcare such as height, weight/mass, length, volume, temperature, and household measurements.	339-349, 356-357
4. **Demonstrate** recording time using 24-hour clock/military time.	357-359
5. **Recognize and convert** traditional numbers to roman numerals.	349-350
6. **Define and recognize** entry level Medical Terminology and terms related to healthcare.	123-142
7. **Identify** body planes, directional terms, cavities, and quadrants.	153-185
Foundation Standard 2: Communications Healthcare professionals will know the various methods of giving and obtaining information. They will communicate effectively, both orally and in writing.	
1. **Interpret** and model verbal and nonverbal communication.	87-90
2. **Recognize and** Identify common barriers to communication.	
a. Physical disabilities (aphasia, hearing loss, impaired vision)	90
b. Psychological barriers (attitudes, bias, prejudice, stereotyping)	90-91
3. **Recognize and interpret** elements of communication using a sender-receiver-message-feedback model.	87-89
4. **Apply and practice** speaking and active listening skills.	89
5. **Recognize** elements of written and electronic communication (spelling, grammar, formatting, and confidentiality).	92-93, 330-335, 940-942
6. **Use** appropriate medical terminology to communicate information in both oral and written forms.	
a. Common root prefixes and suffixes to communicate information	126-134

Correlation to South Carolina's Career and Technology Education – Health Science
Health Science 1 - 5550
DHO: Health Science, Updated, **8/E,**
by Louise Simmers/ Karen Simmers-Nartker, © 2017,
ISBN: 9781305509511
National Geographic Learning | Cengage

COMPETENCY/OBJECTIVE	PAGE REFERENCES
b. Medical abbreviations	134-142
c. Common Abbreviations	135-142
d. Joint Commission Official "Do Not Use List"	134-135
Foundation Standard 3: Systems Healthcare professionals will understand how their role fits into their department, their organization, and the overall healthcare environment. They will identify how key systems affect services they perform and quality of care.	
1. **Identify and compare** healthcare delivery systems (public, private, government).	
a. Profit and nonprofit-such as hospitals, ambulatory facilities, long term care facilities, home health, medical and dental offices, mental health services) and explain factors that influence them. (including emerging issues)	31-36
b. Regulatory bodies such as: CDC, FDA, WHO, OSHA, Public Health Systems/Health Departments, Veteran's Administration	34-35
c. Non-Profits such as March of Dimes, American Heart Association	35
2. **Identify** the importance of an organizational structure in health care.	35-36
Foundation Standard 4: Employability Skills Healthcare professionals will **understand how employability skills enhance their employment opportunities** and job satisfaction. They will demonstrate key employability skills and will maintain and upgrade skills, as needed.	
1. **Identify and apply** personal traits or attitudes desirable as a career ready member of the healthcare team to include	
a. Acceptance of criticism	87
b. Competence	87
c. Dependability	86
d. Discretion	87
e. Empathy	86
f. Enthusiasm	87
g. Honesty	86
h. Initiative	86
i. Patience	86

Correlation to South Carolina's Career and Technology Education – Health Science
Health Science 1 - 5550
DHO: Health Science, Updated, 8/E,
by Louise Simmers/ Karen Simmers-Nartker, © 2017,
ISBN: 9781305509511
National Geographic Learning | Cengage

COMPETENCY/OBJECTIVE	PAGE REFERENCES
j. Responsibility	87
k. Self-motivation	87
l. Tact	87
m. Team player	87
n. Willingness to learn	86
2. **Identify and apply** employability skills desirable as a career ready member of the healthcare team.	
a. Chain of command	545-546
b. Correct grammar	545-546
c. Decision making	545-546
d. Flexibility	545-546
e. Initiative	545-546
f. Loyalty	545-546
g. Positive attitude	545-546
h. Professional characteristics	545-546
i. Promptness and preparedness	545-546
j. Responsibility	545-546
k. Scope of practice	545-546
l. Teamwork	545-546
m. Willingness to learn	545-546
3. **Summarize and demonstrate** professional standards and characteristics as they apply to hygiene, dress, language, confidentiality, and behavior.	84-86
4. **Compare** careers within the health science career pathways (diagnostic services, therapeutic services, health informatics, support services, or biotechnology research and development).	48-81
5. **Research and evaluate** levels of education, credentialing requirements, employment trends in health professions (opportunities, workplace environments, and career earnings etc.).	45-48
6. **Initiate** development of components of a personal portfolio (healthcare project, writing sample, work-based learning, oral presentation, service learning, credentials, technology, and leadership experience).	550-552

Correlation to South Carolina's Career and Technology Education – Health Science
Health Science 1 - 5550
DHO: Health Science, Updated, 8/E,
by Louise Simmers/ Karen Simmers-Nartker, © 2017,
ISBN: 9781305509511
National Geographic Learning | Cengage

COMPETENCY/OBJECTIVE	PAGE REFERENCES
7. **Demonstrate** professional and leadership skills by actively participating in learning experiences through HOSA Future Health Professionals, student organization. (either as a member or as a participant in some of their sponsored activities)	978-979
Foundation Standard 5: Legal Responsibilities Healthcare professionals will understand the legal responsibilities, limitations, and implications of their actions within the healthcare delivery setting. They will perform their duties according to regulations, policies, laws, and legislated rights of clients.	
** *THIS STANDARD IS COVERED IN HEALTH SCIENCE 2.*	
Foundation Standard 6: Ethics Healthcare professionals will **understand accepted ethical practices** with respect to cultural, social, and ethnic differences within the healthcare environment. They will perform quality healthcare delivery.	
1. **Identify** and discuss religious and cultural values as they impact healthcare (such as; ethnicity, race, religion, gender) and demonstrate respectful and empathetic interactions and treatment of all patients/clients within a diverse population (such as: customer service, patient satisfaction, civility).	263-276
Foundation Standard 7: Safety Practices Healthcare professionals will **understand the existing and potential** hazards to clients, coworkers, and self. They will prevent injury or illness through safe work practices and follow health and safety policies and procedures.	
1. **Identify** major classes of microorganisms and describe the chain of infection.	387-393
2. **Demonstrate** infection control principles. (such as handwashing, gloving, environmental cleaning)	396-399
3. **Apply** techniques pertaining to personal and environmental safety. (body mechanics, ergonomics, safe operation of equipment, patient safety)	362-378
4. **Apply** common safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations.	431-443
5. **Comply** with safety signs, labels, and symbols including all safety standards related to the Occupational Exposure to Hazardous Chemicals Standard (Safety Data Sheets).	399-407
6. **Practice** fire safety related to a healthcare setting.	379-383

Correlation to South Carolina's Career and Technology Education – Health Science
Health Science 1 - 5550
DHO: Health Science, Updated, 8/E,
by Louise Simmers/ Karen Simmers-Nartker, © 2017,
ISBN: 9781305509511
National Geographic Learning | Cengage

COMPETENCY/OBJECTIVE	PAGE REFERENCES
7. Summarize principles of basic emergency response in natural disasters or other emergencies (safe location, bioterrorism, active shooter, contact emergency personnel, following protocol).	393-396
Foundation Standard 8: Teamwork Healthcare professionals **will understand the roles and responsibilities** of individual members as part of the healthcare team, including their ability to promote the delivery of quality healthcare. They will interact effectively and sensitively with all members of the healthcare team.	
1. **Explain and Evaluate** roles and responsibilities of team members.	
a**.** Examples of healthcare teams	94
b. Responsibilities of team members	94-95
c. Benefits of teamwork	94-95
2. **Respect** interdisciplinary roles of team members and act responsibly as a team member.	95-96
3. **Recognize** characteristics of effective teams and methods for building positive team relationships.	
a. Active participation	95-96
b. Commitment	95-96
c. Common goals	95-96
d. Cultural sensitivity	95-96
e. Flexibility	95-96
f. Open to feedback	95-96
g. Positive attitude	95-96
h. Reliability	95-96
i. Trust	95-96
j. Value individual contributions	95-96
4. **Collaborate** with others to formulate team objectives.	95-96
5. **Explore and analyze** attributes and attitudes of an effective leader:	
a. Characteristics (interpersonal skills, focused on results, positive)	95
b. Types (autocratic, democratic, laissez faire)	95-96
c. Roles (sets vision, leads change, manages accountability)	95-96

Correlation to South Carolina's Career and Technology Education – Health Science
Health Science 1 - 5550
DHO: Health Science, Updated, 8/E,
by Louise Simmers/ Karen Simmers-Nartker, © 2017,
ISBN: 9781305509511
National Geographic Learning | Cengage

COMPETENCY/OBJECTIVE	PAGE REFERENCES
6. **Apply** techniques for managing team conflict (negotiation, assertive communication, gather the facts, clear expectations, mediation). Recognize methods for building positive team relationships (such as: mentorships and teambuilding).	94-95
Foundation Standard 9: Health Maintenance Practices Healthcare professionals will **understand the fundamentals of wellness and the prevention of disease** processes. They will practice preventive health behaviors among the clients.	
1. **Apply** behaviors that promote health and wellness (such as: nutrition, weight control, exercise, sleep habits).	84
2. Describe strategies for prevention of diseases.	
• Routine physical exams	21
• Medical, dental, and mental health screenings	21
• Community health education outreach programs	21
• Immunizations	21
• Stress management	99-101
• Avoid risky behaviors	84
3. **Investigate** complementary and alternative health practices as they relate to wellness and disease such as Eastern medicine, holistic medicine, homeopathy, manipulative and natural therapies.	22
Foundation Standard 10: Technical Skills Healthcare professionals will apply technical skills required for all career specialties. They will demonstrate skills and knowledge as appropriate.	
1. **Explore** procedures for measuring and recording vital signs and height/weight including normal ranges.	447-476, 711-719
2. **Demonstrate** use of Snellen chart.	726-729
3. **Introduction** to first aid procedures. (Certification optional in level 1)	479-541

Correlation to South Carolina's Career and Technology Education – Health Science
Health Science 1 - 5550
DHO: Health Science, Updated, 8/E,
by Louise Simmers/ Karen Simmers-Nartker, © 2017,
ISBN: 9781305509511
National Geographic Learning | Cengage

COMPETENCY/OBJECTIVE	PAGE REFERENCES
Foundation Standard 11: Information Technology Applications Healthcare professionals will use information technology applications required within all career specialties. They will demonstrate use as appropriate to healthcare applications.	
1. **Communicate** using technology (fax, e-mail, and Internet) to access and distribute data and other information. (including assignments and online assessments).	
a. **Demonstrate** appropriate usage of email and social media in a work environment (such as: work- related communications, personal texting on own time, appropriate language and content, use full language sentences	330-333
7. **Demonstrate** basic computer skills.	
a. Apply basic computer concepts and terminology necessary to use computers and other mobile devices.	317-321
b. Demonstrate basic computer troubleshooting procedures (such as: restart, check power supply, refresh browser, and check settings).	317-321, 330-336
c. **Demonstrate** use of file organization and information storage.	330-336
d. **Identify** uses of basic word processing, spreadsheet, and database applications.	317-320
8. **Recognize** technology applications and key technology principles used in healthcare.	
a. **Identify** types of data collected in Electronic Health Records/Electronic Medical Records (EHR or EMR), such as history and physical, medications, diagnostic tests, patient demographics.	330-333
b. **Evaluate** the validity of web-based resources.	330-333