A Correlation of

Health Science Fundamentals
Exploring Career Pathways
©2012

To the

South Carolina Curriculum Standards for Health Science 2
INTRODUCTION

This document demonstrates how *Health Science Fundamentals: Exploring Career Pathways, ©2012* meets the South Carolina Curriculum Standards for Health Science 2. Correlation references are to the Student Edition and are cited at the page level.

*Health Science Fundamentals* is the most comprehensive, up-to-date high school science program.

Features and Benefits:

- Promotes better understanding of careers, medical terminology, anatomy and physiology, and diseases and disorders.
- Provides more student activities than any other program, including a “bell ringer” activity at the beginning of each lesson.
- Reinforces math, science, and language arts concepts throughout, including assessment with grading rubrics.
- Emphasizes employability skills and professionalism.
- Prepares students for the challenges of life in today’s fast-paced work environment.
- Includes a Student CD-ROM with engaging videos on employability skills and professional profiles.

Program Resources:

- **Teacher’s Wraparound Edition** includes tools to maximize learning.
- **Student Activity Guide** features numerous opportunities for students to preview, review, practice, and reinforce textbook material.
- **Lab Activity Manual** provides clinical procedures presented in the context of real-world scenarios and complications with check sheets to reinforce skills.
- **Teacher’s Resource CD-ROM** includes PowerPoint® for visual presentations, an image library, and video clips.
- **Test Bank with TestGen** provides hundreds of test questions in a variety of formats with automated grading software.
Health Science 2

Health Science 2 focuses on therapeutic, diagnostic, health informatics, support services, and biotechnology research and development pathways of the health science career cluster. The course is designed to provide for the development of knowledge and skills common to a wide variety of healthcare professionals. The foundation standards incorporate anatomy and physiology, communications, healthcare delivery systems, employability skills, legal responsibilities, ethics, safety practices, teamwork, health maintenance practices, technical skills, and information technology applications. Students are guided to make connections from the classroom to the healthcare industry through work-based learning experiences.

**Foundation Standard 1: Academic Foundation**

Healthcare professionals will know the academic subject matter 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.

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<tr>
<td>8. Apply mathematical computations related to healthcare procedures (metric and household conversions and measurements).</td>
<td>SE: 268, 292, 293, 294, 295, 296, 300, 301, 308, 309, 310, 311, 312, 316, 317</td>
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<td>10. Record time using 24-hour clock.</td>
<td>SE: 297, 298, 299, 300, 301</td>
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**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 verbal and nonverbal communication. SE: 154, 155, 176, 177, 178, 179, 180, 181, 186, 187, 188, 189, 190, 192, 193, 194, 209, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230

2. Recognize barriers to communication. SE: 176, 177, 178, 179, 180, 181, 189, 190, 191, 192, 193, 194, 195-196, 197-198, 219, 220

3. Report subjective and objective information. SE: 237, 238, 257

4. Recognize elements of communication using a sender-receiver model. SE: 220, 221, 222

5. Apply speaking and active listening skills. SE: 221, 222


7. Adapt communication to accommodate individual needs. SE: 174, 175, 176, 177, 178, 179, 180, 181, 182, 189, 190, 191, 193, 194, 195, 200, 201

8. Use medical terminology appropriately in verbal and nonverbal communication. SE: 5, 6, 7, 8, 9, 10, 11, 27, 28, 30, 31, 262, 263, 264, 265, 266, 267, 268, 272, 273, 274, 275, 277, 278, 328, 340, 347, 352, 360, 366, 373, 380, 385, 393, 401, 407, 412


**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. Compare healthcare delivery systems (public, private, government, and nonprofit). SE: 26, 27, 28, 29, 30, 31, 32, 33, 34, 38, 39, 40

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<td>3. Describe responsibilities of consumers within the healthcare system.</td>
<td>SE: 59, 168, 185, 235, 276, 425, 546, 555, 556, 771, 803</td>
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<td>4. Explain the impact of emerging issues such as technology, epidemiology, bioethics, and socioeconomics on healthcare delivery systems.</td>
<td>SE: 39, 67, 122, 156, 199, 230, 250, 270, 433, 462, 472, 476, 501, 548, 552, 675, 770, 851</td>
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<td>5. Discuss common methods of payment for healthcare.</td>
<td>SE: 35, 36, 37, 38, 39, 40</td>
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**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. Classify personal traits or attitudes desirable in a member of the healthcare team. | SE: 16, 17, 18, 19, 21, 21, 110, 111, 112, 113, 115, 116, 118 |
| 3. Apply employability skills in healthcare. | SE: 16, 17, 18, 19, 21, 21, 110, 111, 112, 113, 115, 116, 117, 118 |
| 4. Exemplify professional characteristics. | SE: 16, 17, 18, 19, 21, 21, 110, 111, 112, 113, 115, 116, 117, 118 |
| 5. Compare careers within the health science career pathways (diagnostic services, therapeutic services, health informatics, support services, or biotechnology research and development). | SE: 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94 |
| 6. Recognize levels of education, credentialing requirements, employment opportunities, workplace environments, and career growth potential. | SE: 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61, 62, 63, 64, 65, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94 |
| 9. Participate in work based learning activities. | SE: 14, 92, 107, 109, 145, 158, 206, 223 |
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.

1. Analyze legal responsibilities.  
   **SE:** 20, 128, 129, 130, 131, 132, 133, 134-135, 136, 137, 138, 139, 140, 141, 142, 143-145, 146, 157, 158, 159

2. Apply procedures for accurate documentation and record keeping.  
   **SE:** 237, 238, 230, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 256, 257

3. Comply with healthcare facility policies and procedures.  
   **SE:** 110, 111, 114, 115, 120, 121, 124, 128, 129, 120, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 157, 158, 159

4. Use problem solving techniques when confronted with legal dilemmas or issues.  
   **SE:** 134, 135, 136, 137, 140, 141, 142, 143, 144, 145, 146, 157, 158, 159

5. Apply standards for Health Insurance Portability and Accountability Act (HIPAA).  
   **SE:** 136, 137, 146

6. Describe advance directives.  
   **SE:** 139, 140, 146

7. Summarize the Patient’s Bill of Rights.  
   **SE:** 128, 129, 130, 131, 132, 133, 146

8. Understand informed consent.  
   **SE:** 136, 142, 146

9. Explain laws governing harassment, labor, and scope of practice.  
   **SE:** 140, 141, 142, 143, 144, 145, 146

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. Differentiate between ethical and legal issues impacting healthcare.  
   **SE:** 134, 135, 136, 137, 140, 141, 142, 143, 144, 145, 146, 157, 158, 160

2. Recognize ethical issues and their implications related to healthcare.  
   **SE:** 134, 135, 136, 137, 140, 141, 142, 143, 144, 145, 146, 157, 158, 160

3. Apply ethical behaviors in healthcare.  
   **SE:** 134, 135, 136, 137, 140, 141, 142, 143, 144, 145, 146, 157, 158, 160

4. Apply procedures for reporting activities and behaviors that affect health, safety, and welfare of others.  
   **SE:** 157, 158, 159, 160

5. Recognize religious and cultural values as they impact healthcare.  
   **SE:** 176, 177, 178, 179, 180, 181, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198

**SE = Student Edition**
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<td>6. Demonstrate respectful and empathetic interactions with diverse age, cultural, economic, ethnic, and religious groups.</td>
<td>SE: 176, 177, 178, 179, 180, 181, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198</td>
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### 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. Practice principles of infection control.  

2. Describe methods of controlling growth of microorganisms.  

3. Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations.  
   - SE: 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 588, 589, 590, 591, 592, 593, 594

4. Apply principles of body mechanics and ergonomics.  
   - SE: 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 588, 589, 590, 591, 592, 593, 594

5. Apply safety techniques in the work environment.  

6. Comply with safety signs, symbols, and labels.  
   - SE: 493, 494, 496, 497, 498, 499, 778, 779, 780, 787, 788, 789, 790, 791, 792

7. Recognize implications of hazardous materials.  
   - SE: 778, 779, 780, 781, 782, 783, 784, 787, 788, 846

8. Practice fire safety in a healthcare setting.  
   - SE: 30, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 787, 793, 794, 795, 796

9. Apply principles of basic emergency response in natural disasters and other emergencies.  
### South Carolina Curriculum Standards for Health Science 2

#### 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. **Understand roles and responsibilities of team members.**  
   - **SE:** 111, 116, 117, 204, 205, 206, 207, 209, 210, 211

2. **Recognize characteristics of effective team.**  
   - **SE:** 111, 116, 117, 204, 205, 206, 207, 209, 210, 211

3. **Apply the team concept in providing quality healthcare.**  
   - **SE:** 204, 205, 206, 207

4. **Recognize methods for building positive team relationships.**  
   - **SE:** 204, 205, 206, 207

5. **Analyze attributes and attitudes of an effective leader.**  
   - **SE:** 207, 208, 209, 210, 211

6. **Apply effective techniques for managing team conflict.**  
   - **SE:** 207, 208, 209, 210, 211

#### 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.**  

2. **Describe strategies for prevention of diseases including health screenings and examinations.**  
   - **SE:** 31, 38, 185, 186, 462

3. **Apply practices that promote prevention of disease and injury.**  
   - **SE:** 30, 497, 498

4. **Explain the benefits of positive relationships among community health professionals in promoting a healthy community.**  
   - **SE:** 11, 13, 22, 29, 30, 31, 59, 174, 175

5. **Discuss complementary (alternative) health practices as they relate to wellness and disease prevention.**  
   - **SE:** 174, 175, 176, 177, 178, 179, 180, 181, 182, 185, 186, 187, 195, 196, 197
### South Carolina Curriculum Standards for Health Science 2

#### Foundation Standard 10: Technical Skills
Healthcare professionals will apply technical skills required for all career specialties. They will demonstrate skills and knowledge as appropriate.

*Additional technical skills may be included in a program of study based on career specialties.*

1. Apply procedures for measuring and recording vital signs including recognition of normal ranges.
   - SE: 528, 529, 530, 531, 532, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554

2. Apply skills to obtain training or certification in cardiopulmonary resuscitation (CPR), automated external defibrillator (AED), foreign body airway obstruction (FBAO), and first aid.

### 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. Identify records and files common to healthcare.

2. Communicate using technology (fax, e-mail, and Internet) to access and distribute data and other information.

3. Recognize technology applications in healthcare.
   - SE: 67, 120, 225, 226, 227, 228, 229, 230, 231, 433

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