

## HEALTH SCIENCE EDUCATION

### CAREER PLANNING

Student will:

- Create a timeline showing the history of healthcare. The student will begin with the first medical school in the United States and continue to current developments in healthcare
- Research & prepare a summary of a career in each of the following health science career areas:
  - Biotechnology research
  - Therapeutic services
  - Support services
  - Health informatics
  - Diagnostic services
- Research professional traits that are desirable for healthcare workers. Examples of these traits are: leadership, time management & ethical responsibilities. This research will be submitted in short paper form

### HEALTHCARE SYSTEMS

- Research & identify healthcare systems in the United States. This research will include hospitals, nursing homes, etc
- Obtain the World Health Organization report listing the efficiency of healthcare systems throughout the world. The student will use this report to compare healthcare services offered in the United States with other countries
- Use the World Health Organization healthcare efficiency report to contrast healthcare services offered in the United States with services in other countries
- Compare & contrast average costs of a procedure such as childbirth in the United States versus other countries that have a high efficiency rating on the World Health Organization efficiency report
- Prepare a chart that compares the average cost of childbirth in different countries
- Research different types of healthcare payment methods in the United States
- Investigate current innovations in healthcare such as 3-D printers & telemedicine. Develop a visual report to present to the class

### BODY FUNCTION AND STRUCTURE

- Outline basic structures & functions of the following systems: nervous, cardiac, respiratory, lymphatic, musculoskeletal, urinary & digestive
- Explain how the body systems work together
- Describe how physical, social & behavioral needs affect a person. Prepare a poster to show research
- Prepare a brochure to explain the social, mental, physical & emotional development that occurs during: infancy, toddler, school-age, adolescence & adulthood
- Research the differences between health & wellness

- Identify preventive measures to promote health
- Identify preventive measures to promote wellness
- Discuss controversies surrounding the use of electronic medical records
- Discuss controversies surrounding performance-enhancing supplements such as steroids for athletes
- Research & prepare a presentation on a wellness issue such as: sexually transmitted disease, sleep or tobacco use. Include signs/symptoms, physical concerns, ways to prevent, treatment & support systems

### **INFECTION CONTROL/MEDICAL MICROBIOLOGY**

- Define ways germs/infections are spread
- Research & define ways that infections can be prevented
- Understand & demonstrate proper ways to decrease the spread of infection: washing hands, putting on gloves, removing & disposing of gloves

### **FOUNDATIONAL HEALTHCARE SKILLS**

- Research alternative medicine such as biofeedback & acupuncture. Use this research to prepare a poster to be used to inform the general public about these topics
- Understand & demonstrate the following first aid skills: stopping bleeding, caring for burns, caring for broken bones & sprains
- Name the types of teeth & their location in the mouth
- Demonstrate proper teeth brushing & flossing
- Describe the proper way to obtain a specimen to be tested in the lab
- Take a person's temperature, pulse, blood pressure & respirations correctly
- Screen a person's vision using an eye chart
- Correctly walk with crutches and cane
- Use ice packs properly for injuries
- Describe how to assess an athlete with an injury to a joint such as an ankle or wrist
- Correctly demonstrate basic stretching exercises
- Research the duties of a Forensic Scientist
- Discuss how to obtain and use basic DNA samples

