

**Course Title:** Health Careers II

**Department:** Medical Academy

**Course Number:** 5402

**Grade Level(s):** 10-12

**Length of Course:** 1 Year

**Prerequisite(s):** Health Careers I

**UC/CSU (A-G) Req:**

**Brief Course Description:** This is the 2nd year course of a 4 year-long program which deepens its investigation of the health care delivery system, its services, occupations, and related sciences. Topics include the intermediate study of the language of medicine, medical application of the Metric System and Medical Math, Anatomy and Physiology, Diseases/Disorders, Diagnoses, Treatments, patient/ client care regimens, career development, and present and future technological innovations. Skills in science, mathematics, communications, social studies and health are reinforced in this course. Certification in First Responder First Aid and a refresher course in Basic Life Support for Health Care (BLS) for Professionals through the American Heart Association will be offered with frequent module activities.

**I Goals**

The student will:

- A. Deeper examine the role and function of various health care careers (B12.0)
- B. Further their advanced understanding and application of proper medical terminology (B5.0)
- C. Master how to take vital signs and their interpretation to various medical conditions and patient ages using Maslow's hierarchy of Needs and Erikson's 8 Stages of Human Development. (B2.0, B3.0, B4.0 and B7.0)
- D. Understand how to use advanced medical-navigational language to identify and understand human anatomy.(B2.0)
- E. Demonstrate proper body mechanics as they apply to positioning, transferring, and transporting patients. (B8.0)
- F. Master Basic First Aid through the American Heart Association (B2.0, B4.0, B6.0, B7.0, B9.0, B10.0, B11.0 and B12.0)
- G. Implement wellness strategies for the prevention of illness and disease.
- H. Apply observation techniques and assessment skills to detect changes in health status of patients. (B4.0 and B7.0)
- I. Identify and explain the function of the Integumentary System and the diseases and disorders of the Integumentary System (B2.0)
- J. Identify and explain the function of the Nervous System and the diseases and disorders of the Nervous System (B2.0)

- K. Identify and explain the function of the Endocrine System and the diseases and disorders of the Endocrine System (B2.0)
- L. Identify and explain the function of the Gastrointestinal System and the diseases and disorders of the Gastrointestinal System (B2.0)
- M. Identify and explain the function of the Urinary System and the diseases and disorders of the Urinary System (B2.0)
- N. Identify and explain the function of the Reproduction System and the diseases and disorders of the Reproductive System (B2.0)
- O. Identify and explain the function of the Respiratory System and the diseases and disorders of the Respiratory System (B2.0)
- P. Identify and incorporate the various levels of Human Growth & Development Characteristics and understand cultural differences between and within different ethnic and cultural groups and special populations in the care of medical ill or injured patients. (B2.0, B7.0, B12.0 and B13.0)
- Q. Two Capstone Projects:
  - 1. (1st semester) Research a medical condition or injury and develop a presentation on etiology, signs and symptoms, complications, and treatment
  - 2. (2nd semester) Basic First Aid instruction and mastery
- R. To prepare the student to successfully apply learned skills in real-life scenarios and to enable them to successfully apply for the next level; Medical Terminology.

## **II Outline of Content for Major Areas of Study**

Semester I:

- A. Unit I: Chapter 13: The Respiratory System/ Text 2
- B. Unit II: Chapter 8: The Integumentary System/ Text 2
- C. Unit III: Chapter 9: The Nervous System: The Body's Control System/Text 2
- D. Unit IV: Capstone Project: (1st semester) Medical condition/injury presentation.

Semester II:

- E. Unit V: Chapter 10: The Endocrine System/ Text 2
- F. Unit VI: Chapter 15: The Gastrointestinal System
- G. Unit VII: Chapter 16: The Urinary System
- H. Unit VIII: Chapter 17: The Reproductive System
- I. Unit IX: Capstone Project: Basic First Aid: American Heart Association First Aid Course/Text 5.

## **III Accountability Determinants:**

- A. Methods of Instruction:
  - 1. Review of Cornell Note Taking Skill Building
  - 2. Student/Instructor Led Socratic Seminar Activities
  - 3. Student-directed activities to review, correct, and build both strong academic knowledge and moral leadership characteristics critical in future Health Care providers.
- B. Assessment Methods
  - 1. Classroom Participation
  - 2. Chapter Quizzes
  - 3. Chapter Comprehensive Exams
    - a. short answer

- b. multiple choice
  - c. matching
- 4. Semester-ending Capstone Project: The goal is to attain both medical/nursing skills and academic understanding through the classroom environment and to effectively demonstrate such capabilities through certification via the American Heart Association, First Aid Responder Course.

#### **IV Instructional Materials and Methodologies**

##### **A. Required Textbook(s)**

Title: Diversified Health Occupations; 7th Edition

ISBN: 13:9781418030216

Author(s):

Publisher: Delmar Publishers

Title: Anatomy, Physiology & Disease: An Interactive Journey for Health Professionals

ISBN: 13: 978-0-13 135966-6

Author(s): Colbert, Ankney, Lee

Publisher: Pearson Publishers

Year: 2009

Title: BLS for Health Care Providers, Professional: American Heart Association.

ISBN:

Author(s):

Publisher:

Title: Rapid Interpretation of EKGs, 6th Edition

ISBN: 13: 9780912912066

Author(s): Dale Dubin, MD.

All 4 texts are used in both levels; Health Careers I and Health Careers II.

##### **B. Supplementary Materials**

To Be Determined as course progresses: The focus will be on

1. DVD videos
2. Emergency medical equipment
3. Human and animal anatomical Manikin models

##### **C. Instructional Methodologies**

1. PowerPoint Lectures
2. "Flight," group activities/cooperative learning/communicative activities such as: Student/Instructor Led Socratic Seminar Activities and Student-directed activities to review for major exams and preparation for the Semester II Capstone Project: First Aid Responder Course through the American Heart Association
3. Student-Led PowerPoint lectures
4. Various video documentation on the subject of Health, Emergency Medicine, Veterinary Medicine, Disease, and Trauma.
5. Professional In-class presentations by local community Health Care Providers such as; the City of Murrieta Fire Department, American Medical Response (AMR) ambulance service, local doctors, nurses, pharmacists, veterinarians, and the MMHS school nurse.