

Course Overview

This course will give students an awareness of career opportunities and the skills needed for careers in allied health. Students will have the opportunity to explore dozens of career options in the allied health field through field trips, guest speakers, and the use of Internet websites. In addition to career options, the curriculum covers systems of the human body and medical terminology. The laboratory work will introduce students to proper laboratory techniques and the operation of instruments used in allied health clinics and labs.

This course is designed to prepare students for entry-level employment and/or a two- or four-year college program in the field of allied health. Career choices for students taking this class might be: one year of school to become a surgical technician or 14 years to become a surgeon; 2-year or 4-year RN; dental assistant, dental hygienist or dentist; medical assistant, physician assistant or physician; respiratory therapist, physical therapist, medical lab technician at a hospital or clinic, radiology technician, dietetic technician or dietitian, and many others.

This class will focus on three main themes: 1. Basic healthcare career information, 2. An introduction to anatomy and physiology, 3. Medical terminology. The textbook will provide content and structure for individual units.

A significant component of this class is the 15+ healthcare professionals who provide classroom presentations in which they share personal career pathways, career information, and demonstrate equipment or technology used in their career. We also take a field trip to MATC and Davis-Duehr-Dean. These field trips and classroom presentations provide an exciting introduction and insight into dozens of healthcare careers.

COURSE OUTCOMES

1. Identify potential healthcare careers.
2. Show awareness of the wide variety of occupations available in the health care field.
3. Identify the levels of training necessary to work in the healthcare field.
4. Recognize the wide variety of healthcare settings in which healthcare is delivered.
5. Identify the four service areas which encompass all healthcare occupations.
6. List various diagnostic services careers and identify traits and skills of workers in this service area.
7. List various therapeutic services careers and identify traits and skills of workers in this service area.
8. List various support/environmental services careers and identify traits and skills of workers in this service area.
9. List various information services careers and identify traits and skills of workers in this service area.
10. Evaluate potential health careers after comparing personal interests and abilities to traits and skills in each of the four service areas.
11. Describe a career ladder for at least one healthcare occupation.
12. Describe methods of Standard Precautions that prevent the spread of infectious diseases.
13. Identify normal and abnormal vital signs.
14. Describe the importance of the values for normal vital signs.
15. Demonstrate competence in performing the following: blood pressure, radial pulse, respiration rate, temperature (Thermoscan of tympanic membrane), and blood sugar.
11. List the 11 major organ systems and identify organs and structures in each system (as identified in core content).
12. Identify root words, suffixes, and prefixes that comprise basic medical terminology (as identified in core content)

CORE CONTENT

This class focuses on three main themes:

- I. Basic healthcare career information
- II. An introduction to anatomy and physiology
- III. Medical terminology

I. BASIC HEALTHCARE CAREER INFORMATION

Career information is gathered through Internet, video, guest speakers, and field trips. A significant component of this class is the 15+ healthcare professionals who provide classroom presentations in which they share personal career pathways, career information, and demonstrate equipment or technology used in their career. In addition to guest speakers, there is also a field trip to MATC and Davis-Duehr-Dean.

Activities include the following:

[Healthcare Agencies and Facilities](#)

[Healthcare Careers Summary](#)

[Wiscareers Assesments](#)

[Healthcare Career Video Summaries](#)

[Healthcare Career Report](#)

[Guest Speaker Summary](#)

[MATC Field Trip](#) (Also, see a schedule from past: [MATCSchedule](#))

[MATC Healthcare Occupation Programs](#)

[Medical Occupations Portfolio](#)

II. ANATOMY AND PHYSIOLOGY

This class introduces anatomy and physiology of the following body systems:

Cardiovascular and Circulatory

[Study Guide Cardiovascular](#)

[Heart Diagram](#)

[EKG lab](#)

Blood Pressure lab

Respiratory

[Study Guide Respiratory](#)

[Lung and respiratory volumes](#)

[Vital Signs Lab](#)

Skeletal and Muscular

[Study Guide Skeletal and Muscular](#)

[Chicken knee joint dissection](#)

Digestive

[Study Guide Digestive](#)

BMI info at: http://www.cdc.gov/healthyweight/assessing/bmi/adult_bmi/index.html

CDC Obesity Trends at: <http://www.cdc.gov/obesity/data/trends.html>

[MyPyramid diet and exercise](#)

[Diet Wars](#)

Urinary

[Study Guide Urinary](#)

[Glucometer Lab](#) (see [lab data](#))

Nervous and Sensory

[Study Guide Nervous and Sensory](#)

III. MEDICAL TERMINOLOGY

Medical Terminology #1

1. angi
2. carcin
3. arthro
4. cysto
5. cardio
6. cephal
7. col
8. chole
9. chondr
10. cranio
11. histo
12. cyt
13. derm
14. emesis
15. enter
16. gastr
17. gyne
18. hepato
19. glyc
20. hemo

Medical Terminology #2

1. hyster
2. laparo
3. lith
4. mamm
5. meningo
6. myelo
7. myo
8. naso
9. nephr
10. neuro
11. ocul
12. odont
13. onco
14. ophthalm
15. osteo
16. oto
17. path
18. phlebo
19. pnea
20. pneumo

Medical Terminology #3

1. pseudo
2. psych
3. pulmon
4. quadr

5. ren
6. stoma
7. thorac
8. thromb
9. trophy
10. vaso
11. viscer
12. a
13. bi
14. brady
15. cyan
16. dys
17. epi
18. erythro
19. eu
20. ex

Medical Terminology #4

1. hemi
2. hyper
3. hypo
4. inter
5. intra
6. leuk
7. micro
8. neo
9. para
10. peri
11. poly
12. pre
13. semi
14. sub
15. tachy
16. ac
17. al
18. ectomy
19. emia
20. gram

Medical Terminology #5

1. graphy
2. ic
3. ist
4. itis
5. lysis
6. megaly
7. oid
8. ologist
9. ology
10. oma
11. orrhea
12. osis

13. ostomy
14. otomy
15. ous
16. pathy
17. phobia
18. plegia
19. sclerosis
20. scopy

Medical Terminology #6 – Digestive System

1. stomy
2. ectomy
3. itis
4. ic
5. scopy
6. rrhea
7. emesis
8. sphincter
9. gastr
10. periton
11. hepat
12. enter
13. append
14. endo
15. chole
16. cyst
17. peri
18. stalsis
19. diverticul
20. col
21. dia
22. cholecystectomy
23. diarrhea
24. endoscopy
25. appendectomy
26. enteritis
27. hepatitis
28. peristalsis
29. diverticulitis
30. peritonitis
31. colostomy
32. gastric

Medical Terminology #7 – Skeletal & Muscular Systems

1. itis
2. scopy
3. herni
4. a
5. muscul
6. ar
7. arthr
8. dys

9. trophy
10. my
11. cardi
12. um
13. oste
14. oma
15. al
16. cervic
17. porosis
18. coccyx
19. lumb
20. thorac
21. ic
22. sacr
23. crani
24. scoli
25. osis
26. arthritis
27. arthroscopy
28. hernia
29. muscular dystrophy
30. myocardium
31. osteoma
32. osteoporosis
33. cervical vertebrae
34. coccygeal vertebrae
35. lumbar vertebrae
36. thoracic vertebrae
37. sacral vertebrae (sacrum)
38. cranium
39. scoliosis

Medical Terminology #8 – Urinary & blood sugar

1. en
2. ur
3. esis
4. urethr
5. itis
6. catheter
7. ization
8. urin
9. alysis
10. hemo
11. dia
12. lysis
13. lith
14. tripsy
15. nephr
16. ectomy
17. ren
18. al
19. hypo

20. hyper
21. glyc
22. emia
23. enuresis
24. urethritis
25. catheterization
26. urinalysis
27. hemodialysis
28. lithotripsy
29. nephrectomy
30. renal
31. hypoglycemia
32. hyperglycemia
33. diabetes