

ESSEX COUNTY COLLEGE
Biology, Chemistry & Physics Division
HSC 109 – Medical Terminology
Course Outline

Course Number & Name: HSC 109 – Medical Terminology

Credit Hours: 3.0 **Contact Hours:** 3.0 **Lecture:** 3.0 **Lab:** 0.0 **Other:** N/A

Prerequisites: Grades of “C” or better in ENG 096 and RDG 096 or ESL 105 and ESL 106 or Placement, High School Biology or BIO 100 is strongly recommended.

Co-requisites: **None** Concurrent Courses: **None**

Course Outline Revision Date: Spring 2021

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Course Goals: Upon successful completion of this course, students should be able to do the following:

1. Explain the concepts and purpose of medical terminology as applied to the human body;
2. Describe normal structure and function of the body cells, tissues, organs and systems and discuss the abnormalities or disorders resulting from injury and/or disease;
3. List the categories and major manifestations of disease, identifying and using the terms pertaining to disease;
4. Describe diagnostic aids, selected laboratory tests and forms of treatment used in medical practice; and
5. Explain pharmacologic terms and name a variety of drugs commonly used in medicine and their purposes

Measurable Course Performance Objectives: Upon successful completion of this course, students should specifically be able to do the following:

1. Explain the concepts and purpose of medical terminology as applied to the human body:
 - 1.1 *explain the purpose of medical terminology;*
 - 1.2 *define the terms root, suffix, and prefix;*
 - 1.3 *explain what combining forms are and why they are used;*
 - 1.4 *name the languages from which most medical word parts are derived; and*
 - 1.5 *pronounce medical terms properly for effective communication*
2. Describe normal structure and function of the body cells, tissues, organs and systems and discuss the abnormalities or disorders resulting from injury and disease:
 - 2.1 *list the levels of organization in living organisms from simplest to the most complex;*
 - 2.2 *describe and label the diagram of a typical cell;*

- 2.3 *name and give the functions of the four basic tissue types of the human body, the components and functions of the systemic and organismal levels of body organization; and*
- 2.4 *analyze and apply word parts pertaining to cells, tissue, systems and body structure*

3. List the categories and major manifestations of disease, identifying and using the terms pertaining to disease:
 - 3.1 *list the major categories of diseases;*
 - 3.2 *explain the health-disease continuum and relate homeostatic imbalance to disease;*
 - 3.3 *list infectious pathogens and the diseases they cause;*
 - 3.4 *describe the common response to disease;*
 - 3.5 *define and give examples of neoplasia;*
 - 3.6 *list and define the major manifestations of diseases; and*
 - 3.7 *define the major terms describing diseases*

4. Describe diagnostic aids, selected laboratory tests and forms of treatment used in medical practice:
 - 4.1 *list the main components of patient history;*
 - 4.2 *describe the clinical observational techniques;*
 - 4.3 *name and describe common imaging techniques;*
 - 4.4 *name and discuss possible forms of treatment regimen;*
 - 4.5 *describe staging and grading as applied to cancer;*
 - 4.6 *define basic medical terms pertaining to patient history, medical examination, diagnosis and treatment; and*
 - 4.7 *identify, interpret and apply symbols and abbreviations in diagnosis and treatment*

5. Explain pharmacologic terms and name a variety of drugs commonly used in medicine and their purposes:
 - 5.1 *define pharmacology, pharmacodynamics, pharmacokinetics, molecular pharmacology, medicinal chemistry and toxicology;*
 - 5.2 *explain the differences between over-the-counter, prescription and scheduled drugs;*
 - 5.3 *explain the differences between chemical, generic and brand/trade name of a drug;*
 - 5.4 *list several drug references;*
 - 5.5 *explain the categories of drugs and how they act;*
 - 5.6 *list common routes of drug administration; and*
 - 5.7 *define abbreviations related to drugs and their use*

Methods of Instruction: Instruction will consist of a combination of lectures, general class discussions of case study exercises, and individual study.

Class Requirements: All students are required to:

1. Read the textbook and do the suggested homework problems in a timely manner.
2. Be an active participant in all classes.
3. Take tests/exams in class and adhere to the test/exam schedule.
4. Present a Medical Paper

Grading: Final course grades will be computed as follows:

Grading Components	% of final course grade
• 7 Exams	84%
• Medical Paper Presentation	16%
Total	100%

Grades will be scaled and scored as letters as follows:

- A = (90-100)%
- B+= (86-89)%
- B = (80-85)%
- C+= (76-79)%
- C = (70-75)%
- D = (60-69)%
- F = (00-59)%

Please note the following items that pertain to grading in this course:

- Completing assigned reading and homework in a timely manner and contributing to class discussions will greatly enhance your chance of success in this course. Mathematics cannot be understood without doing a significant amount of outside study.

- There are NO MAKE-UP TESTS or EXAMS. You will be excused from a missed test or exam only if you contact me immediately to explain reasonable circumstances. If you are not excused, then you will receive a grade of ZERO for all missed tests or exams.
- In determining final course grades, consideration will be given to class attendance, punctuality, assignment completion and participation. Excessive absences or lateness usually negatively affects student understanding of the material and, therefore, performance in this course.
- Incomplete grades will only be given to students with a 'C' average or better who are unable to take the final exam. You must contact me immediately if you miss the exam and give a valid explanation of why you were unable to take the final.

Academic Integrity: Dishonesty disrupts the search for truth that is inherent in the learning process and so devalues the purpose and the mission of the College. Academic dishonesty includes, but is not limited to, the following:

- plagiarism – the failure to acknowledge another writer’s words or ideas or to give proper credit to sources of information;
- cheating – knowingly obtaining or giving unauthorized information on any test/exam or any other academic assignment;
- interference – any interruption of the academic process that prevents others from the proper engagement in learning or teaching; and
- fraud – any act or instance of willful deceit or trickery.

Violations of academic integrity will be dealt with by imposing appropriate sanctions. Sanctions for acts of academic dishonesty could include the resubmission of an assignment, failure of the test/exam, failure in the course, probation, suspension from the College, and even expulsion from the College.

Student Code of Conduct: All students are expected to conduct themselves as responsible and considerate adults who respect the rights of others. Disruptive behavior will not be tolerated. All students are also expected to attend and be on time all class meetings. No cell phones or similar electronic devices are permitted in class. Please refer to the Essex County College student handbook, *Lifeline*, for more specific information about the College’s Code of Conduct and attendance requirements.

Students with Special Needs: If you are a student with documented disabilities, you are entitled to receive appropriate accommodations as recommended by the Office of Disability Support Services, which will occur once you provide the necessary documentation to this office. It is not enough for you to request such accommodations directly from me. You must contact a counselor in the Office of Disability Support Services, as soon as possible to receive valuable guidance and support. The office is located in Room 1123 and the phone number is 973-877-2186

Required Textbook: **Medical Terminology, An Illustrated Guide**, 8th edition, by Barbara Janson Cohen; published by Wolters Kluwer/Lippincott Williams & Wilkins; Philadelphia, PA, 2017; ISBN #: 978-1-4963-1888-6

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On the following page (s) is a TENTATIVE class session schedule. This schedule is subject to change at any time. Please be aware of any changes that are announced in class by either contacting a classmate or else by contacting me via e-mail or by phone during my office hours.

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Week	Chapter and Topic
1	Introduction to the class; expectations will be discussed Introduction to Medical Terminology; Suffixes; Prefixes
2	The Levels of Human Organization Body Structure Exam 1 on Chapters 1 – 5
3	Diseases; Diagnosis and Treatment; Surgery
4	Drugs / Pharmacology
5	Integumentary System Exam 2 on Chapters 6 – 8 & handout
6	The Skeletal System The Muscular System
7	The Nervous System and Behavioral Disorders Exam 3 on Chapters 19 – 21
8	The Senses

- 9** **The Endocrine System**
Case Studies 16-1; 16-2; 16-3 (Case Study Questions # 1 to 22)
- 10** **Chapter 9: Circulation: The Cardiovascular & Lymphatic Systems**
Case Studies 9-1; 9-2 (Case Study Questions # 1 to 24)
Exam 4 on Chapters 16 – 18
- 11** **Chapter 10: Blood & Immunity**
Case Studies 10-1, 10-2 (Case Study Questions # 1 to 26)
Exam 5 on Chapters 9 & 10
- 12** **The Respiratory System**
Case Studies 11-1; 11-2; 11-3 (Case Study Questions # 1 to 20)
- 13** **The Digestive System**
- 14** **The Urinary System**
Exam 6 on Chapters 11 & 12
Medical Paper Presentations begin.
- 15** **The Male Reproductive System**
Medical Paper Presentations (continued)
- 16** **The Female Reproductive System; Pregnancy and Birth**
Case Studies 15-1; 15-2; 15-3 (Case Study Questions # 1 to 23)
Exam 7 on Chapters 13 – 15
Medical Paper Presentations (continued)