

**ESSEX COUNTY COLLEGE**  
**Biology and Chemistry 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:** N/A      **Other:** N/A

**Pre-requisites:** 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:** Fall 2010

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**Course Description:** A survey of medical science designed to foster mastery of medical terminology to ensure its accurate and appropriate use in the allied health fields is presented in this course. Medical vocabulary is emphasized and a general discussion of human anatomy and physiology is provided. Disease, diagnosis and treatment procedures are also covered.

**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 (MPOs):** 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*

**Measurable Course Performance Objectives (MPOs) (continued):**

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, and individual study.

**Outcomes Assessment:** Exam questions are blueprinted to course objectives. A checklist rubric is used to evaluate the medical paper presentation for the presence of course objectives. Data is collected and analyzed to determine the level of student performance on these assessment instruments in regards to meeting course objectives. The results of this data analysis are used to guide necessary pedagogical and/or curricular revisions.

**Course Requirements:** All students are required to:

1. Attend class. Absences or late arrivals negatively affect student understanding of the material and, therefore, performance in the course.
2. Complete assigned reading and homework in a timely manner and contribute to class discussions, which will greatly enhance your chance of success in this course. Science cannot be understood without doing a considerable amount of outside study.
3. Take exams when scheduled. Policies regarding make-up exams are established by individual instructors.

**Methods of Evaluation:** Final course grades will be computed as follows:

<b>Grading Components</b>	<b>% of final course grade</b>
<ul style="list-style-type: none"> <li>• <b>7 or more Exams</b> (dates specified by the instructor) Exams will show evidence of the extent to which students meet course objectives.</li> </ul>	<b>84%</b>
<ul style="list-style-type: none"> <li>• <b>Medical Paper Presentation</b> The presentation will provide evidence of whether the students have mastered medical terminology/vocabulary as well as other course objectives.</li> </ul>	<b>16%</b>

**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.

**Course Content Outlines:** based on the text **Medical Terminology, An Illustrated Guide**, 6<sup>th</sup> edition, by Babara Janson Cohen; published by Wolters Kluwer/Lippincott Williams & Wilkins; Philadelphia, PA, 2011; ISBN #: 978-1-60547-604-9

<b>Week</b>	<b>Chapters/Topics</b>
1	Chapter 1: Introduction to Medical Terminology Chapter 2: Suffixes Chapter 3: Prefixes In-class Interactive Exercises
2	Chapter 4: The Levels of Human Organization Chapter 5: Body Structure <b>Exam 1</b> on Chapters 1 – 5
3	Chapter 6: Diseases Chapter 7: Diagnosis Treatment (handout)
4	Chapter 8: Drugs/Pharmacology
5	Chapter 21: Integumentary System <b>Exam 2</b> on Chapters 6 – 8 & handout
6	Chapter 19: The Skeletal System Chapter 20: The Muscular System
7	Chapter 17: The Nervous System <b>Exam 3</b> on Chapters 19 – 21
8	Chapter 18: The Special Senses
9	Chapter 16: The Endocrine System
10	Chapter 9: The Cardiovascular & Lymphatic Systems <b>Exam 4</b> on Chapters 16 – 18
11	Chapter 10: Blood & Immunity <b>Exam 5</b> on Chapters 9 & 10
12	Chapter 11: The Respiratory System
13	Chapter 12: The Digestive System

<b>Week</b>	<b>Chapters/Topics</b>
14	Chapter 13: The Urinary System <b>Exam 6</b> on Chapters 11 & 12 <b>Medical Paper Presentations</b> begin
15	Chapter 14: The Reproductive System <b>Medical Paper Presentations</b> (continued)
16	Chapter 15: Development Obstetrics (handout) <b>Exam 7</b> on Chapters 13 – 15 & handout <b>Medical Paper Presentations</b> (continued)