I. INTRODUCTION
A study of human disease with emphasis on human pathophysiology, including etiology, prognosis, medical treatment, signs and symptoms of common diseases of all body systems.
A. This is a required course in the Medical Coding and Billing and Medical Documentation Specialist certificates. You will be required to demonstrate proficiency in the skills learned in this course in the internship or practicum courses.
B. This course in conjunction with other appropriate courses prepares students to enter the health-related career fields.
C. Experience with anatomy and physiology, and keyboarding and document formatting skills recommended.
D. Alphanumeric coding used throughout this syllabus denotes integration of SCANS occupational competencies (C1, etc.) and foundation skills (F1, etc.).

II. LEARNING OUTCOMES
Upon successful completion of Human Disease/Pathophysiology, the student will:
A. Distinguish between normal and abnormal physiologic functions of all body systems. (F1, F2, F12, C2, C3, C5, C6, C7).
B. Identify etiology, signs, and symptoms of diseases of all body systems. (F1, F2, C1, C3, C4, C5, C7).
C. Correlate the prognosis, medical treatment, and procedures with patient morbidity and mortality. (F1, F2, C2, C3, C4).

III. INSTRUCTIONS MATERIALS
Instructional materials for this course may be found at www.ctcd.edu/books.

IV. COURSE REQUIREMENTS
A. Reading Assignments: To be successful in this course, you must read and study the textbook. Chapter assignments will be required with each lesson, and you are expected to complete all the work in the chapters including chapter activities and practice exercises. Even though you may not be required to turn all work in for grading, you are still responsible for the material covered in the exercises.
B. Class Assignments: Assignments may include coding correlation exercises case studies/research projects completion of activities and quizzes at the companion website
C. Mindtap – Mindtap contains quizzes and activities they are part of your grade.
D. Class Performance – Students enrolled in distance learning courses are expected to maintain constant progress throughout the course. Failure to do so may result in the student being administratively withdrawn by the instructor.

V. EXAMS
A. There will be exams (quizzes) to accompany the chapters/lessons of the course. These exams will cover information in the reading assignments, chapter and website exercises, and the class assignments. The majority of exam questions will be objective-type.

B. Tentative dates for completion of the lessons, including the quizzes, will be announced in the schedule provided in the online syllabus.

C. The final exam will be cumulative and will be composed of objective-type questions.

VI. SEMESTER GRADE COMPUTATIONS

<table>
<thead>
<tr>
<th>Grade Components</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Unit Quizzes</td>
<td>20%</td>
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<tr>
<td>Mindtap Activities</td>
<td>20%</td>
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<tr>
<td>Discussion Boards</td>
<td>20%</td>
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<tr>
<td>Course Project</td>
<td>20%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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VII. NOTES AND ADDITIONAL INSTRUCTIONS

A. **Withdrawal from course:** It is your responsibility as a student to officially drop a class if circumstances prevent attendance. Any student who desires to, or must, officially withdraw from a course after the first scheduled class meeting must file an Application for Withdrawal or an Application for Refund. The withdrawal form must be signed by the student.

Application for Withdrawal will be accepted according to the following schedule:

- Friday of 3rd week for 5-week courses
- Friday of 4th week for 6-week courses
- Friday of 6th week for 8-week courses
- Friday of 7th week for 10-week courses
- Friday of 9th week for 12-week courses
- Friday of 12th week for 16-week courses

The equivalent date (75% of the semester) will be used for sessions of other lengths. The specific last day to withdraw is published each semester in the Schedule Bulletin.

Students who officially withdraw will be awarded the grade of "W," provided the student's attendance and academic performance are satisfactory at the time of official withdrawal. Students must file a withdrawal application with the College before they may be considered for withdrawal.
A student may not withdraw from a class for which the instructor has previously issued the student a grade of "F" or "FN" for nonattendance.

B. **An Administrative Withdrawal**: Results when a student is absent an excessive number of times as defined in the current Central Texas College catalog and/or other published amendatory documentation. In such a case, the student is dropped from the course with a grade of F.

Under Section 51.907 of the Texas Education Code, “an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education.” This statute was enacted by the State of Texas in spring 2007 and applies to students who enroll in a public institution of higher education as first-time freshmen in fall 2007 or later.

C. **An Incomplete Grade**: In keeping with College policy, the instructor may grant an incomplete grade in cases in which the student had completed the majority of the course work, but because of extenuating circumstances, is unable to complete the requirement for the course. Prior approval from the instructor is required before the grade of “IP” is recorded. Deadline for changing the IP grade is 110 days after the scheduled end of the course. An IP grade can be replaced with the student’s actual grade, including an F; but it may not be replaced with a W. At the end of the 110 calendar days if the student has not completed the remaining coursework as required by the instructor, the IP will be converted to an FI and appear as an F on the student’s official transcript.

D. **Cellular Phones**: Cellular phones will be turned off while the student is in the classroom or laboratory.

E. **Americans With Disabilities Act (ADA)**: Disability Support Services provides services to students who have appropriate documentation of a disability. Students requiring accommodations for class are responsible for contacting the Office of Disability Support Services (DSS) located on the central campus. This service is available to all students, regardless of location. Explore the website at [http://www.ctcd.edu/locations/central-campus/student-support/student-success-persistence/disability-support-services/](http://www.ctcd.edu/locations/central-campus/student-support/student-success-persistence/disability-support-services/) for further information. Reasonable accommodations will be given in accordance with the federal and state laws through the DSS office.

F. **Instructor Discretion**: The instructor reserves the right of final decision in course requirements.
G. **Civility:** Individuals are expected to be cognizant of what a constructive educational experience is and respectful of those participating in a learning environment. Failure to do so can result in disciplinary action up to and including expulsion.

H. **Scholastic Honesty:** All students of the Office Technology program are required and expected to maintain the highest standards of scholastic honesty in the preparation of all work and in examinations. Each student should avoid:

1. **Plagiarism:** the taking of passages or ideas from writings of others without giving proper credit to the source.

2. **Collusion:** working together with another person in the preparation of work unless such joint preparation is specifically approved in advance by the instructor.

3. **Cheating:** giving or receiving information on an examination, homework, or projects.

4. Students found guilty of scholastic dishonesty are subject to the Office Technology Department’s disciplinary action and Central Texas College’s disciplinary committee; in addition, students are subject to having credit for courses canceled.

VIII. **COURSE OUTLINE**

A. **Unit 1**

1. **Chapters**
   a. Chapter 1: Introduction to Human Diseases
   b. Chapter 2: Mechanisms of Disease
   c. Chapter 3: Neoplasms

2. **Learning Outcomes**
   a. Describe basic disease concepts, including mechanisms of disease, neoplasms, inflammation, and infection
   b. Examine the basic anatomy and physiology of the body systems, etiology of various diseases and conditions, important signs and symptoms of disorders, common diagnostics, typical course and management of disorders, preventive measures, and the effects of aging
   c. Identify the terminology, etiology, signs and symptoms, common diagnostics, typical course and management of disorders, and preventive measures associated with genetic and developmental disorders, childhood diseases, and mental health disorders
   d. Recognize important medical terminology related to the understanding of human diseases
e. State the drug classifications and examples of medications in each class used to treat diseases, disorders and conditions related to each body system

3. Learning Activities
   a. Chapter activities and practice exercises. (F1, F2, F7, F11, F16)
   b. Courseware activities. (F7, F9, F10, F12, F16)
   c. Chapter quizzes. (F7, F9, F10, F12, F16)
   d. Discussion Board (F5, C8, C19, F16)

B. Unit 2
   i. Chapters
      a. Chapter 4: Inflammation and Infections
      b. Chapter 5: Immune System Diseases and Disorder
      c. Chapter 6: Musculoskeletal System Diseases and Disorders
   ii. Learning Outcomes
      1. Describe basic disease concepts, including mechanisms of disease, neoplasms, inflammation, and infection
      2. Examine the basic anatomy and physiology of the body systems, etiology of various diseases and conditions, important signs and symptoms of disorders, common diagnostics, typical course and management of disorders, preventive measures, and the effects of aging
      3. Identify the terminology, etiology, signs and symptoms, common diagnostics, typical course and management of disorders, and preventive measures associated with genetic and developmental disorders, childhood diseases, and mental health disorders
      4. Recognize important medical terminology related to the understanding of human diseases
      5. State the drug classifications and examples of medications in each class used to treat diseases, disorders and conditions related to each body system
   iii. Learning Activities
      1. Chapter activities and practice exercises. (F1, F2, F7, F11, F16)
      2. Courseware activities. (F7, F9, F10, F12, F16)
      3. Chapter quizzes. (F7, F9, F10, F12, F16)
      4. Discussion Board (F5, C8, C19, F16)

C. Unit 3
   i. Chapters
      a. Chapter 7: Blood and Blood-Forming Diseases and Disorders
      b. Chapter 8: Cardiovascular System Diseases and Disorders
      c. Chapter 9: Respiratory Diseases and Disorders
   ii. Learning Outcomes
      1. Describe basic disease concepts, including mechanisms of disease, neoplasms, inflammation, and infection
      2. Examine the basic anatomy and physiology of the body systems,
etiology of various diseases and conditions, important signs and symptoms of disorders, common diagnostics, typical course and management of disorders, preventive measures, and the effects of aging
3. Identify the terminology, etiology, signs and symptoms, common diagnostics, typical course and management of disorders, and preventive measures associated with genetic and developmental disorders, childhood diseases, and mental health disorders
4. Recognize important medical terminology related to the understanding of human diseases
5. State the drug classifications and examples of medications in each class used to treat diseases, disorders and conditions related to each body system

iii. Learning Activities
1. Chapter activities and practice exercises. (F1, F2, F7, F11, F16)
2. Courseware activities. (F7, F9, F10, F12, F16)
3. Chapter quizzes. (F7, F9, F10, F12, F16)
4. Discussion Board (F5, C8, C19, F16)

D. Unit 4
i. Chapters
   a. Chapter 10: Lymphatic System Diseases and Disorders
   b. Chapter 11: Digestive System Diseases and Disorders
   c. Chapter 12: Liver, Gallbladder, and Pancreatic Diseases and Disorders

ii. Learning Outcomes
1. Describe basic disease concepts, including mechanisms of disease, neoplasms, inflammation, and infection
2. Examine the basic anatomy and physiology of the body systems, etiology of various diseases and conditions, important signs and symptoms of disorders, common diagnostics, typical course and management of disorders, preventive measures, and the effects of aging
3. Identify the terminology, etiology, signs and symptoms, common diagnostics, typical course and management of disorders, and preventive measures associated with genetic and developmental disorders, childhood diseases, and mental health disorders
4. Recognize important medical terminology related to the understanding of human diseases
5. State the drug classifications and examples of medications in each class used to treat diseases, disorders and conditions related to each body system

iii. Learning Activities
1. Chapter activities and practice exercises. (F1, F2, F7, F11, F16)
2. Courseware activities. (F7, F9, F10, F12, F16)
3. Chapter quizzes. (F7, F9, F10, F12, F16)
4. Discussion Board (F5, C8, C19, F16)

E. Unit 5
   i. Chapters
      a. Chapter 13: Urinary System Diseases and Disorders
      b. Chapter 14: Endocrine System Diseases and Disorders
      c. Chapter 15: Nervous System Diseases and Disorders
   ii. Learning Outcomes
       1. Describe basic disease concepts, including mechanisms of disease, neoplasms, inflammation, and infection
       2. Examine the basic anatomy and physiology of the body systems, etiology of various diseases and conditions, important signs and symptoms of disorders, common diagnostics, typical course and management of disorders, preventive measures, and the effects of aging
       3. Identify the terminology, etiology, signs and symptoms, common diagnostics, typical course and management of disorders, and preventive measures associated with genetic and developmental disorders, childhood diseases, and mental health disorders
       4. Recognize important medical terminology related to the understanding of human diseases
       5. State the drug classifications and examples of medications in each class used to treat diseases, disorders and conditions related to each body system
   iii. Learning Activities
        1. Chapter activities and practice exercises. (F1, F2, F7, F11, F16)
        2. Courseware activities. (F7, F9, F10, F12, F16)
        3. Chapter quizzes. (F7, F9, F10, F12, F16)
        4. Discussion Board (F5, C8, C19, F16)

F. Unit 6
   i. Chapters
      a. Chapter 16: Eye and Ear Diseases and Disorders
      b. Chapter 17: Reproductive System Diseases and Disorders
      c. Chapter 18: Integumentary System Diseases and Disorders
   ii. Learning Outcomes
       1. Describe basic disease concepts, including mechanisms of disease, neoplasms, inflammation, and infection
       2. Examine the basic anatomy and physiology of the body systems, etiology of various diseases and conditions, important signs and symptoms of disorders, common diagnostics, typical course and management of disorders, preventive measures, and the effects of aging
       3. Identify the terminology, etiology, signs and symptoms, common diagnostics, typical course and management of disorders, and preventive measures associated with genetic and developmental
disorders, childhood diseases, and mental health disorders

4. Recognize important medical terminology related to the understanding of human diseases

5. State the drug classifications and examples of medications in each class used to treat diseases, disorders and conditions related to each body system

iii. Learning Activities

1. Chapter activities and practice exercises. (F1, F2, F7, F11, F16)
2. Courseware activities. (F7, F9, F10, F12, F16)
3. Chapter quizzes. (F7, F9, F10, F12, F16)
4. Discussion Board (F5, C8, C19, F16)

G. Unit 7

1. Chapters
   a. Chapter 19: Genetic and Developmental Diseases and Disorders
   b. Chapter 20: Childhood Diseases and Disorders
   c. Chapter 21: Mental Health Diseases and Disorders

2. Learning Outcomes
   a. Describe basic disease concepts, including mechanisms of disease, neoplasms, inflammation, and infection
   b. Examine the basic anatomy and physiology of the body systems, etiology of various diseases and conditions, important signs and symptoms of disorders, common diagnostics, typical course and management of disorders, preventive measures, and the effects of aging
   c. Identify the terminology, etiology, signs and symptoms, common diagnostics, typical course and management of disorders, and preventive measures associated with genetic and developmental disorders, childhood diseases, and mental health disorders
   d. Recognize important medical terminology related to the understanding of human diseases
   e. State the drug classifications and examples of medications in each class used to treat diseases, disorders and conditions related to each body system

3. Learning Activities
   a. Chapter activities and practice exercises. (F1, F2, F7, F11, F16)
   b. Courseware activities. (F7, F9, F10, F12, F16)
   c. Chapter quizzes. (F7, F9, F10, F12, F16)
   d. Discussion Board (F5, C8, C19, F16)

4. Final Exam (F1, F2, F7, F11, F16)