HIMT 360

Healthcare II: Survey of Disease and Treatment

Instructor Name

Course Description

This course further investigates the topics covered in HIMT 330 Health Care I. On the basis of each body system, the course will further expand into the topics of human disease, human health issues, and classification of disease/health issues. Diagnostics, treatment and clinical procedures that are currently in practice. In addition, the course will incorporate pharmacotherapeutic concepts (drugs and therapies to treat/prevent/control human disease/health issues), investigating the variety of drugs used for disease treatment for each body system. This will include the current biologicals that are used for treatment. Topics will include how the drugs and biologicals work, their limitations, and the current diversity of available drugs and biologicals.

Prerequisite: HIMT 330 Healthcare I: Terminology and Body Systems

Course Learning Objectives

At the end of this course, the student will be able to:

- Explain hundreds of terms and concepts related to human disease.
- Apply knowledge of human disease terms to current healthcare issues.

HIM Curriculum Competencies

While not addressing any competencies directly, the course provides critical foundation knowledge for the program's management courses and prepares students for health care management and administration courses at the master's degree level.

Course Materials

Required Text:

Additionally, the course material will be drawn from assigned reading, videos, podcasts and website content.

Course Activities

Problem Sets

The bulk of your activity and grade for the course involves completing problem sets based on your reading of <u>The Nature of Disease</u> and your comprehension of video lectures. Each of the 22 sessions of the course requires you to complete problem sets. These problem sets are found in the form of quizzes, which are found under the Quizzes menubar above. Typically, there are three quizzes that form a problem set for a session. The first quiz is a check on your recall or remembrance of key terms, the second quiz is a check on your understanding of the session's contents, and the third quiz is focused on your application of the session's contents.

The quizzes within a session total up to 20 points, and there are 22 sessions in the course.

ICD-9 Assignments

Use an on-line ICD-9 data base to identify the code for a disease. Identify the following components. The goals and additional details will be presented when you choose your topics.

1. You will have a choice of diseases to search during a period early in the semester. You will be responsible for ICD-9 characterization of those diseases.
2. Use the search option to find the Disease and Code.
3. Select sub-options, open the options.
4. Record the following information
    a. Code and Disease Name
    b. List of subsets of the disease with codes
    c. Open each option and record the following
        1. Disease Name
        2. Characteristics of the disease
        3. What the disease includes
5. Submit your data sheet

Example – Your assignment is to identify codes for "Acute Appendicitis".

a. **Code and Disease Name**

   540 Acute Appendicitis

b. **List of subsets of the disease with codes**

   540.0 Acute appendicitis with generalized peritonitis

   540.1 Acute Appendicitis with peritoneal abscess

   540.9 Acute Appendicitis without peritoneal abscess

c. **Open each option and record the following**

   1. Disease Name - **540.0** Acute appendicitis with generalized peritonitis
   2. Characteristics of the disease – None given
   3. What the disease includes

      - Ruptured appendix
      - Appendicitis with perforation
      - Ruptured cecum with peritonitis
      - Gangrenous appendicitis with perforation
      - Cecitis with perforation and peritonitis
      - Fulminating Appendicitis with perforation
      - Obstructive appendicitis with perforation

   1. Disease Name – **540.1** Acute Appendicitis with peritoneal abscess
   2. Characteristics of the disease – None given
   3. What the disease includes
      - Continue with all identified diagnoses

   1. Disease Name - **540.9** Acute Appendicitis without peritoneal abscess
   2. Characteristics of the disease – None given
   3. What the disease includes
      - Continue with all identified diagnoses

ICD-9 Sign-up Sheet

You will have to select one topic for your ICD Sheets. It will record your name and the item you selected for the instructor.

To access the sign-up sheet, click **More Tools** in the bar above, and then choose *Surveys*in the list of options.

How to Find My Comments on Your Work

To see the feedback on your assignments and quizzes, please look over these instructions.

Late Work Policy

There will be a penalty for late work. Point deductions will follow this schedule:

- 10% deduction (the best you can earn is 90%) – if your work is submitted any time after the 5:00pm deadline.
- 20% deduction – if your work is submitted after 11:59pm that day.
- 100% deduction – if your work is submitted after midnight the following day (31 hours late).

Of course there are exceptions. I will grant waivers from point deductions under the following circumstances.

1. You send me a request for waiver no later than 11:59 am of the day of the deadline. To do this you must:
   a. You make a request for a waiver by e-mail,
   b. State your reason for needing an extension. (I am not obligated to accept your reason as sufficient to earn a waiver)
   c. Propose a deadline for completing your work. (I might counter your proposal.)
2. You are in the hospital, and you contact me to make arrangements to adjust your personal deadline schedule.

Please let me know if you have any questions.

Course Outline

- Session 1: Introduction & the Nature of Disease
- Session 2: Measuring Disease
- Session 3: Cell Damage

- Session 4: Cell Tissues and Regeneration
- Session 5: Inflammation
- Session 6: Wound Healing
- Session 7: Fluid Balance and Flow
- Session 8: Neoplasms
- Session 9: Immune System
- Session 10: Infectious Disease
- Session 11: Diseases of Blood Vessels
- Session 12: Diseases of the Heart
- Session 13: Diseases of the Respiratory Tract
- Session 14: Diseases of the GI Tract
- Session 15: Diseases of the Liver and Biliary Tract
- Session 16: Diseases of the Pancreas
- Session 17: Diseases of the Kidney
- Session 18: Treatment and Prevention
- Session 19: Treatment: Antibiotics and Vaccines
- Session 20: Treatments for Cancer
- Session 21: Treatments for Diseases of the Heart
- Session 22: Treatment for Type II Diabetes

Grading

Determination of Final Grade

Grades in HIMT 360 are based on the completion of regular homework assignments, and assignments using ICD-9. Requirements for ICD Sheets will be posted on D2L. Grades in the course will be determined solely by performance on exams and points awarded for the completion of problem sets (aka homework).

This is how the required work in the course will be weighted:

Problem Sets (20 pts. x 22)	440
ICD Sheets (10 pts. x 3)	30
Total	**470**

Grading Scale

90–100%	A

80–89%	B
70–79%	C
60–69%	D
0–59%	F

Course Calendar

Dates	Content Covered and Course Activities	Textbook Pages
5/31	The Nature of Disease	2-5
6/2	Measuring Disease (Session 1R, 1U, 1A due - 11:59 pm)	6-13
6/4	Measuring Disease	6-13
6/6	Cell Injury (Session 2R, 2U, 2A due - 11:59 pm)	14-33
6/8	Cell Injury	14-33
6/9	Cell Tissues and Regeneration (Session 3R, 3U, 3A due - 11:59 pm)	51-56
6/11	Cells Tissues and Regeneration	51-56
6/13	Inflammation (Session 4R, 4U, 4A due - 11:59 pm)	34-49
6/15	Inflammation	34-49
6/16	Wound Healing (Session 5R, 5U, 5A due - 11:59 pm)	56-63
6/18	Wound Healing	56-63
6/20	Fluid Balance and Flow (Session 6R, 6U, 6A due - 11:59 pm)	65-85
6/22	Fluid Balance and Flow	65-85
6/23	Neoplasms (Session 7R, 7U, 7A due - 11:59 pm)	86-108
6/25	Neoplasms (ICD #1 is due - 5:00 pm)	86-108
6/27	Immune System (Session 8R, 8U, 8A due - 11:59 pm)	144-175
6/29	Immune System	144-175
6/30	Infectious Disease (Session 9R, 9U, 9A due - 11:59 pm)	176-204
7/2	Infectious Disease	176-204
7/7	Diseases of Blood Vessels (Session 10R, 10U, 10A due - 11:59 pm)	270-290
7/9	Diseases of Blood Vessels	270-290
7/11	Diseases of the Heart (Session 11R, 11U, 11A due - 11:59 pm)	292-322
7/13	Diseases of the Heart	292-322
7/14	Diseases of the Respiratory Tract (Session 12R, 12U, 12A due - 11:59 pm)	324-353
7/16	Diseases of the Respiratory Tract	324-353
7/18	Diseases of the GI Tract (Session 13U and 13A due - 11:59 pm)	354-387
7/20	Diseases of the GI Tract	354-387
7/21	Diseases of the Liver and Biliary Tract (Session 14R, 14U, 14A due - 11:59 pm)	389-420
7/23	Diseases of the Liver and Biliary Tract (ICD #2 is due - 5:00 pm)	389-420

7/25	Diseases of the Pancreas (Session 15R, 15U, 15A due - 11:59 pm)	421-446
7/27	Diseases of the Pancreas	421-446
7/28	Diseases of the Kidney (Session 16R, 16U, 16A due - 11:59 pm)	479-508
7/30	Diseases of the Kidney	479-508
8/1	Treatment and Prevention (Session 17A due - 11:59 pm)	
8/3	Treatment and Prevention	
8/4	Treatment: Antibiotics and Vaccines (Session 18-1, 18-2, 18-3 due - 11:59 pm)	
8/6	Treatment: Antibiotics and Vaccines	
8/8	Treatments for Cancer (Session 19-1, 19-2, 19-3 due - 11:59 pm)	
8/10	Treatments for Cancer	
8/11	Treatments for Diseases of the Heart (Session 20-1, 20-2, 20-3 due - 11:59 pm)	
8/13	Treatments for Diseases of the Heart	
8/15	Treatment for Type II Diabetes (Session 21-1, 21-2, 21-3 due - 11:59 pm)	
8/18	Treatment for Type II Diabetes (Session 22-1, 22-2, 22-3 due - 11:59 pm)	
8/19	ICD #3 is due - 5:00 pm	