

Course Description**HIM2222L | ICD Coding Systems Laboratory | 3.00 credits**

This course is designed to apply diagnoses and operations into numerical designations (codes) utilizing the International Classification of Diseases and Procedures. Students will learn correct sequencing, analysis of clinical disease processes, diagnosis and procedural terminology, and application of pharmacology in current coding systems. Encoding software is utilized. Prerequisites: BSC2085, 2085L, and HIM2472; corequisite: HIM2222

Course Competencies:

Competency 1: The student will demonstrate and apply ICD-10-CM/PCS coding conventions, rules, and guidelines for the collection of diseases, injuries, surgeries, and procedures; competency in applying UHDDS rules, the importance of coding using supplementary classifications, and extracting codeable health data from the health record in both inpatient and outpatient coding is addressed integrating laboratory and radiology findings by:

1. Interpreting key terms for purposes of coding health information
2. Identifying the use and purpose of ICD-10-CM/PCS coding classification
3. Tracing device and approach codes in ICD-10 PCS
4. Choosing steps to obtain and assign ICD-10-CM/PCS codes using Official Coding Guidelines
5. Identifying characteristics of ICD-10-CM/PCS coding
6. Investigating and applying coding rules to supplementary codes
7. Identifying subdivisions of the main classification structure of Volume 1 of ICD-10-CM
8. Discovering the difference in ICD-10 coding from the Classification of Diseases and Injuries,
9. Supplementary Chapters
10. Explaining Volume 2 alphabetization rule and indentation pattern of entries
11. Applying ICD-10-CM/PCS conventions such as instructional notes, abbreviations, cross-reference notes, punctuation marks
12. Explaining relational expressions used in diagnosing
13. Determining the purpose of UHDDS in coding
14. Applying UHDDS definitions to coding statements, case scenarios, and the health record
15. Applying coding guidelines using UHDDS guidelines
16. Classifying UHDDS definitions for reporting significant procedures
17. Adhering to ethical coding and reporting of ICD-10-CM codes
18. Describing steps in coding diagnoses and procedures
19. Abstracting health data from the source document
20. Converting health information into ICD-10-CM/PCS codes
21. Demonstrating the ability to sequence codes as principal, first-listed, and secondary diagnosis/procedure
22. Indexing entries from the Alphabetic Index of Disease nonspecific abnormal test results or findings
23. Providing codes to classify symptoms, abnormal findings, and ill-defined and unknown causes of Morbidity and Mortality reported with a medical statement
24. Locating "Z" codes for contact with health services, explaining health encounters and factors influencing healthcare
25. Assigning "Y" codes reporting external causes of injury

Competency 2: The student will demonstrate mastery of basic knowledge of coding specific diseases and disorders referenced under the human body system addressing integrating laboratory and radiology findings by:

1. Infectious and Parasitic Diseases
2. Reviewing pathology of common infectious and parasitic diseases
3. Identifying, selecting, and properly sequencing code(s) for AIDS, AIDS-like, AIDS-related, HIV, HIV- related, and unconfirmed HIV medical statements
4. Maintaining body site, severity of disease, causative organism, etiology, and signs/symptoms/manifestation of infectious and parasitic disease
5. Applying coding guidelines to complete the coding of tuberculosis
6. Determining proper code selection of sepsis, severe sepsis, SIRS, and septic shock
7. Identifying the need to code "Z" code for drug-resistant infections
8. Matching accurate laboratory and radiological findings to infectious diseases

9. Assigning ICD-10-CM disease codes to reflect stages of diseases and late effects/sequelae
10. Selecting appropriate ICD-10 PCS choosing characters for the treatment of Infectious and parasitic diseases
11. Endocrine, Nutritional, and Metabolic Diseases and Immunity Disorders
12. Reviewing basic disease processes of diabetes mellitus and metabolic disorders
13. Distinguishing typical manifestations and complications
14. Applying and assigning code categories, fourth/fifth digit subcategories, and subclassifications using ICD 10-CM/PCS (six/seventh character) coding and UHDDS guidelines.
15. Interpreting medical documentation reflected in documented treatment modalities
16. Sequencing appropriately encounters codes of diarrhea and dehydration
17. Comparing insulin-dependent to non-insulin-dependent and Type 1 to Type II Diabetes
18. Examining documentation and choosing code for the specificity of obesity
19. Selecting appropriate laboratory tests to confirm endocrine and metabolic diseases
20. Selecting appropriate ICD-10-CM/PCS procedures for diagnosis and treatment of endocrine disease Neoplasms
21. Defining the five behavior groups of neoplasms classification
22. Differentiating between the various types of neoplasms (e.g., malignant, neuroendocrine, benign, carcinoma in situ, uncertain, behavior, and unspecified nature)
23. Demonstrating methods for locating and assigning neoplasm codes using the ICD alphabetic index and the neoplasm table
24. Identifying Categories for Stages for Tumor (T), Node (N), and Metastasis (M) 2.17 Stating the purpose and the assignment of morphology codes
25. Describing and selecting codes to reflect diagnostic statements of “metastatic site”
26. Determining the coding sequence of neoplastic disease and therapy-directed admission
27. Assigning codes for hematopoietic and lymphatic system malignancies
28. Identifying and assigning ICD-10 CM codes for terms of secondary sites and neoplasm-related pain
29. Sequencing neoplasm codes according to rules and Official Guidelines for Coding and Reporting Neoplasm
30. ab. Identifying and assigning ICD-10 PCS codes related to neoplastic procedures

Competency 3: The student will demonstrate basic knowledge of encoder software, coding specific diseases and disorders referenced under the human body system of digestive, nervous, special senses, and mental; both inpatient and outpatient coding is addressed by:

1. Digestive System Diseases
2. Digestive System Diseases Labeling basic anatomy and common diseases affecting the digestive system
3. Understanding the rules for selecting appropriate digestive system disease diagnosis for inpatient and outpatient coding
4. Reviewing the coding guidelines for approaches (i.e., exploratory laparotomy)
5. Selecting appropriate code(s) for significant inpatient diagnoses and procedures
6. Assigning ICD-10-CM diagnostic codes for outpatient coding
7. Interpreting documentation for coding of ulcers of the stomach and small intestine, complications of gastrointestinal ostomies, adhesions, hernias of the abdominal cavity, and various types of code assignment for diarrhea
8. Interpreting the listing of appendicitis
9. Choosing appropriate adverse effect and T-code medications
10. Assigning ICD-10 codes and characters for endoscopic procedures and repairing hernias
11. Nervous System and Sense Organs
12. Reviewing the anatomy and physiology of the nervous system & sense organs and common pathological diseases
13. Explaining coding rationale for sequencing of dual coding of inflammatory or degenerative disorders/diseases
14. Examining and coding correctly specific types of cerebrovascular accidents by interpreting medical documentation
15. Selecting ICD-10CM codes for epilepsy
16. Identifying and knowing the anatomy and function of the sense organs
17. Select codes according to documentation in the medical records for blindness, cataract glaucoma, deafness, otitis, etc. Mental Disorders
18. Naming and describing common mental disorders
19. Describing the role of DSM-V in mental disorders coding
20. Identifying and properly coding types of behavioral disturbances in dementia (aggressive, violent, wandering off, or combative)
21. Identifying code categories that require appropriate characters.

22. Selecting principal diagnosis code according to Coding Clinic guidelines based on abuse/dependency admission circumstances.
23. Reviewing documentation pattern of substance use in medical records to determine fifth digits for abuse or dependency disorders.
24. Selecting procedural ICD-10-CM code rehab/detox and alcohol/drug therapy.
25. Comparing manually coded diagnoses and procedures to automated coding systems using the Encoder and Grouper software

Competency 4: The student will demonstrate coding referencing diseases and disorders of the circulatory, blood-forming, and respiratory systems in the human body system, comparing manual and automated coding by:

1. Reviewing Circulatory System, Blood, and Blood-Forming Organs
2. Reviewing the anatomy, function, and common pathological disorders of the circulatory system, blood, and blood-forming organs
3. Determining through documentation whether rheumatic fever is acute or quiescent
4. Selecting the appropriate site and occurrence of myocardial infarction
5. Listing and explaining the Official Coding guidelines for coding heart failure
6. Sequencing ICD-10-CM codes according to coding rules for circumstances related to cerebrovascular disorders, ischemia, hypertension manifestations
7. Stating the importance of the hypertension table listed in Disease of the circulatory system
8. Discussing the impact of comorbidities, complications, operative and non-operative procedures on code assignment and reimbursement
9. Explaining the distinction between conditions diagnosed “with” another condition in contrast to a condition diagnosed “due to” another condition
10. Describing and applying coding rules for reporting cardiac catheterization, angioplasty, and coronary bypass surgery
11. Applying knowledge of coding principles by assigning accurate and precise codes to report diagnoses and procedures in Respiratory System Diseases
12. Reviewing the respiratory system anatomy and discuss common pathological diseases
13. Distinguishing between simple and complex pneumonias
14. Examining health record documentation for proper coding of specific or unspecific pneumonia
15. Assigning proper coding for Chronic Obstructive Respiratory Diseases (COPD, Asthma, etc.)
16. Matching coding guidelines for designating the principal or secondary diagnosis coding of respiratory failure
17. Verify and assign ICD-10-CM/PCS procedure codes for respiratory biopsies, tracheostomies, ventilation assistances, and sinus procedures.
18. Learning Outcomes
19. Communicate effectively using listening, speaking, reading, and writing skills.
20. Formulate strategies to locate, evaluate, and apply information.
21. Demonstrate knowledge of ethical thinking and its application to societal issues.

Competency 5: The student will demonstrate basic knowledge of coding specific diseases and disorders referenced under the human body system by:

1. Genitourinary System Diseases
2. Identifying and discussing genitourinary (GU) anatomy and common disease processes
3. Assigning codes for diseases and GU manifestations
4. Selecting ICD-10-CM/PCS procedure codes for various types of renal dialysis, shunts, and catheters
5. Identifying codes describing the numerous approaches used for prostatectomies
6. Locating diagnosis and procedure codes for male & female disorders
7. Explaining the rationale of selecting complication or “Z” codes as principal diagnosis with breast implant(s) status
8. Naming various types of mastectomies and structures removed
9. Collect, analyze, and generate reports on coding to make an organizational decision
10. Complications of Pregnancy, Childbirth, and the Puerperium
11. Discussing the gestational period and associated abbreviations (LMP, ECC)
12. Applying coding rules to an ectopic, molar pregnancy, abortive outcomes, and complications
13. Describing the character's subclassification about coding and reporting antepartum, labor & delivery, and postpartum conditions
14. Reciting the phases of birth and outcome (Z-code) of delivery

15. Discussing and coding comorbidities and complications associated with the gestational and puerperium period
16. Recognizing common malposition's of fetus
17. Listing various birthing methods
18. Describing the impact of proper sequencing of obstetrical diagnoses and procedural coding
19. Conditions in the Perinatal Period and Congenital Anomalies
20. Defining terms of newborn, infant, neonate, well-baby, and congenital anomaly
21. Explaining the purpose of the Apgar score
22. Recognizing proper usage of appropriate characters in the occurrence of birth
23. Determining mother's health forms found in infant record
24. Applying codes of maternal causes of perinatal morbidity and mortality
25. Assigning code for prematurity, low birth weight, and post-maturity
26. Determining proper usage of "Z" codes for infant routine vaccination, encounters, observation, evaluation, and classification of birth
28. Describing coding rule associated with HIV-positive newborns, Septicemia, and SIRS Learning Outcomes:
29. Communicate effectively using listening, speaking, reading, and writing skills.
30. Formulate strategies to locate, evaluate, and apply information.
31. Demonstrate knowledge of ethical thinking and its application to societal issues.

Competency 6: The student will demonstrate intermediate use of encoder software in coding specific diseases and disorders of the skin, musculoskeletal, injuries, poisoning, adverse effects, and complications; focus compliance on outpatient setting by:

1. Skin and Subcutaneous Tissue Diseases
2. Identifying and recall the layers and function of the integumentary system
3. Assigning codes for adverse reaction or poisoning affecting the skin and subcutaneous tissue
4. Explaining various forms of skin ulcerations and associated complications
5. Locating ICD-10-CM code for abscess/cellulitis
6. Assigning correct procedure code by interpreting documentation for debridement
7. Coding most common types of skin lesions and match levels of excision or destruction procedures
8. Stating coding guidelines for biopsy and excision of tissue
9. Selecting 10-PCS procedural codes for skin repairs and grafts
10. Listing skin conditions medically necessary for hospital admissions
11. Musculoskeletal System and Connective Tissue Diseases
12. Reviewing the anatomy, physiology, and common pathological diseases of the musculoskeletal system
13. Identifying and dual code common manifestations of arthritis
14. Applying code categories to joint derangement (current or recurrent)
15. Recognizing and selecting code for fractures (stress, pathological, traumatic, compression, late effect)
16. Explaining the three basic approaches of spinal fusion or re-fusion
17. Reviewing medical reports to determine the level of hip-replacement Injury, Poisoning, and Adverse Effects
18. Defining injury, poisoning, other effects of external causes, complications of trauma and medical/surgical care, and late effects
19. Justifying usage of abuse coding through documentation verification
20. Distinguishing documentation of coding fracture, dislocation (open vs closed), and procedures related to diagnosing and treat fractures
21. Describing and properly assigning appropriate subclassification codes and encounter characters for fractures and injuries
22. Determining other fractures (pathological, compression, birth injuries)
23. Identifying "rules of nine" for estimating total body surface area burns
24. Differentiating between first-, second-, and third-degree burns
25. Investigating depth of burn through documentation and sequence codes for burns
26. Stating rules of coding for posttraumatic wound infection
27. Applying coding guidelines to pre-existing conditions and/or additional diagnoses
28. Assigning "Y" codes for activities leading to injuries and place of occurrence
29. Classifying poisoning from adverse effects by using decision tree to choose appropriate principal and secondary diagnoses

30. Assigning appropriate “T” code from the Table of Drugs and Chemicals
31. Applying sequela coding guidelines
32. Distinguishing between excisional and non-excisional debridement Complications
33. Defining complications, time frame, and sequela rules in ICD-10 classifications
34. Differentiating between residual condition and complication
35. Distinguishing the complication categories between mechanical, infection, or specified types
36. Understanding coding rule of external cause X and Y codes with the use of complication code Outpatient
37. Examining the differences in outpatient diagnosis coding and inpatient coding as it pertains to Official Coding Guidelines of Coding and Reporting
38. Assigning supplemental Z-codes for unconfirmed diagnoses in the outpatient setting

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information