

Montgomery County Community College  
HCP 227  
Principles of Medical Coding II  
3-3-0

**COURSE DESCRIPTION:**

This course expands student knowledge of coding and classification systems in order to assign valid diagnostic and/or procedure codes for medical billing and reimbursement required by the Health Insurance Portability and Accountability Act (HIPAA) including the validation of coded clinical information. Focus is placed on the ICD-10-CM/PCS (The International Classification of Diseases 10th Revision Procedure Coding System), HCPCS I and II (Healthcare Common Procedure Coding System) and CPT (Current Procedural Terminology) classification systems. The course utilizes the professional standards for coding and reporting of diagnostic and procedural inpatient and outpatient services. Students will identify and apply coding characteristics, conventions and accurately assign codes to diseases, conditions and procedures.

**REQUISITE(S):**

Previous Courses

REA 011 Fundamentals of College Reading or ESL/ REA 017 Vocabulary & Reading Comprehension Development II

Previous or Concurrent Courses

HCP/MAS/BIO 104 The Human Body in Health and Disease or BIO 131 Human Anatomy and Physiology I **AND** BIO 132 Human Anatomy and Physiology II  
HCP 224 Medical Terminology  
HCP 226 Medical Coding I  
HCP230 CPT Coding & Reimbursement

Upon successful completion of this course, the student will be able to:

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
1. Explain the purpose of coding and classification systems.	Lecture Multimedia Demonstrations Software Applications Written Assignment	Quizzes and Exams Assignments Discussion Questions
2. Apply the basic characteristics, conventions, and guidelines of the ICD-10-CM/PSC, HCPCS I, HCPCS II and CPT coding	Lecture Multimedia Demonstrations Software Applications Written Assignment Small Group Projects Case Studies	Quizzes and Exams Assignments Discussion Questions

systems.		
3. Accurately assign ICD-10-CM/PSC, HCPCS I, HCPCS II and CPT codes and modifiers to diseases, conditions, and procedures using the coding book and/or an encoder.	Lecture Multimedia Demonstrations Software Applications Written Assignment Case Studies	Quizzes and Exams Assignments Discussion Questions
4. Apply diagnostic related group sequencing and selection principles to any group of diagnoses or procedures.	Lecture Multimedia Demonstrations Software Applications Written Assignment Small Group Projects Case Studies	Quizzes and Exams Assignments Discussion Questions
5. Validate coding accuracy using clinical information found in the health record while resolving discrepancies between coded data and supporting documentation.	Lecture Multimedia Demonstrations Software Applications Written Assignment Case Studies	Quizzes and Exams Assignments Discussion Questions
6. Ensure coding quality and compliance with third party payer and Quality Improvement Organizations rules.	Lecture Multimedia Demonstrations Software Applications Written Assignment Case Studies	Quizzes and Exams Assignments Discussion Questions

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Director of Educational Effectiveness. The benchmark for each learning outcome is that 70% of students will meet or exceed outcome criteria.

## SEQUENCE OF TOPICS

1. Purpose of Coding and Classification Systems, History of ICD (The International Classification of Diseases), and Need for ICD-10-CM/PCS (The International Classification of Diseases 10th Revision Procedure Coding System)
2. Format, Conventions and Guidelines for HCPCS (Healthcare Common Procedure Coding System); and CPT (Current Procedural Terminology).
3. ICD-10-PCS, Conventions (Alphabetic Index & Tabular), Code structure, Section/Body System/ Root Operation, and Official Coding Guidelines
4. Source Documents, Validate Accuracy and Resolve Discrepancies
5. MS-DRG System, Case Mix and Severity of Illness
6. Quality and Compliance, Quality Improvement Organizations and Third-Party Payers

#### LEARNING MATERIALS:

*Required:* Buck's Coding Exam Review (Current Edition). Elsevier.

*Required:* Clinical Coding Workout (Current Edition): Practice Exercises for Skill Development. AHIMA.

*Required:* Exam Book Bundle (CPT, HCPCS, ICD-10-CM) (Current Edition). AACP.

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

#### COURSE APPROVAL:

Prepared by: George Blake	Date: 7/2009
Revised by: Kathleen Schreiner and Christine Starpoli	Date: 11/21/2013
VPAA/Provost Compliance Verification	Date:

#### COURSE APPROVAL:

Prepared by: George Blake	Date: 7/2009
VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr.	Date: 2/17/2010

Revised by: Kathleen Schreiner	Date: 7/2012
VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D.	Date: 7/17/2012

Revised by: Kathleen Schreiner	Date: 11/1/2018
VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D.	Date: 1/15/2019

Revised by: Kathleen Schreiner Ann Dillard	Date: 8/17/2020
VPAA/Provost or designee Compliance Verification: Gloria Oikelome, Ed.D.	Date: 10/23/2020

Revised by: Ann Forrestal	Date: 11/2022
---------------------------	---------------

VPAA/Provost or designee Compliance Verification:  
Therol Dix, J.D.

Date: 12/2/2022

Revised by: Ann Forrestal  
VPAA or designee Compliance Verification:

Date: 5/7/2024  
Date: 5/7/2024



*This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.*