Montgomery County Community College
HCP 226
Principles of Medical Coding I
3-3-0

COURSE DESCRIPTION:
This course is designed to provide the student with an understanding 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. The ICD-CM classification system is introduced with an emphasis on use of the alphabetic index and tabular list for code assignment. The course focuses on ICD-CM rules, conventions, and instructions as well as specific guidelines (e.g. circulatory, injury, pregnancy), including assignment criteria for principal and additional diagnoses in all applicable patient settings. The impact of proper code assignment, MS-DRGs and reimbursement are also discussed.

REQUISITE(S):
Previous Courses
REA 011 Fundamentals of College Reading or ESL/ REA 017 Vocabulary & Reading Comprehension Development II

Previous or Concurrent Courses
HCP 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

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

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
1. Discuss the relevance of coding systems in today's healthcare market.	Lecture Multimedia Demonstrations Software Applications Written Assignment Small Group Projects	Quizzes and Exams Assignments Discussion Questions

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
2. Differentiate between primary diagnosis and secondary diagnosis and the importance of each in determining the correct coding for reimbursement.	Lecture Multimedia Demonstrations Software Applications Written Assignment Small Group Projects	Quizzes and Exams Assignments Discussion Questions
3. Explain the format, rules, guidelines and conventions used in diagnosis, procedure and medical equipment coding.	Lecture Multimedia Demonstrations Software Applications Written Assignment Small Group Projects	Quizzes and Exams Assignments Discussion Questions
4. Assign appropriate principal diagnosis, additional (co-morbidity) diagnosis and procedures according to coding guidelines	Lecture Multimedia Demonstrations Software Applications Written Assignment Small Group Projects	Quizzes and Exams Assignments Discussion Questions
5. Describe the inpatient payment systems MS-DRGs (Medicare Severity Diagnosis-Related Group)	Lecture Multimedia Demonstrations Software Applications Written Assignment Small Group Projects	Quizzes and Exams Assignments Discussion Questions
6. Compare and contrast the similarities and differences of various coding structures and guidelines.	Lecture Multimedia Demonstrations Software Applications Written Assignment Small Group Projects	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 Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria*.

SEQUENCE OF TOPICS
1. Introduction to Coding, Coding Compliance and Ethics, Coding related terms
2. History of Coding systems
3. Comparison of coding systems - Conventions (Alphabetic Index & Tabular), Code structure, Official Coding Guidelines, General Equivalence
4. Mappings (GEMs)
5. Selection of Principal and additional diagnosis and procedures
6. Format and Conventions for Diagnosis Coding; Identifying Signs, Symptoms, and Diagnostic Statements

7. Coding of Infectious and Parasitic Diseases, Endocrine Diseases and Immunity Disorders, and Mental Disorders
8. Coding of Diseases of the Blood and Blood-Forming Organs, certain disorders involving the immune mechanism and Diseases of the Nervous System
9. Coding Diseases of the Respiratory, Digestive, and Genitourinary Systems
10. Coding of Circulatory System Diseases and Neoplastic Diseases
11. Coding Diseases of the Skin and Diseases of the Musculoskeletal System
12. Coding of Pregnancy and Childbirth; Complications of Pregnancy; Abortion; Congenital Anomalies and Perinatal Conditions
13. Coding of Injuries, Burns, Poisoning, and Complications of Care
14. External Cause of Morbidity and Factors Influencing Health Status and
15. Contact with Health Services
16. Reporting of the Present on Admission Indicator
17. Reimbursement and revenue cycle
18. Outpatient/ambulatory care and reimbursement

LEARNING MATERIALS:
Bowie, MJ. Understanding ICD-10-CM & ICD-10-PCS: A Worktext (Current Education). Cengage.

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 Staropoli   Date: 11/21/13
VPAA/Provost Compliance Verification: Date:

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: 11/13/2018

Revised by: Ann Forrestal   Date: 5/7/2024
VPAA or designee Compliance Verification: 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.