10/27/2024 DATE
☑ REQUIRED COURSE
☐ ELECTIVE COURSE

BUS DIVISION
☑ NEW COURSE
☐ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	MCS-051		TITLE: *(30 Characters Max)*		Math for Medical Coders						
SEM CR HRS:	2	Lecture:	2	Lab:	0				ECH:	2	
Course Level:	☐ Gen Ed/IAI ☐ Baccalaureate/Non-IAI ☑ Career/Technical ☐ Dev Ed/Not in Degree Audit			Clinical Practicum:	0	Work-based Learning:	0	WBL ECH:	0		
Course PCS & CIP:	12 - 51.0707		IAI Code		N/A			Contact Hours (Minutes/Week)			
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:		Max:		16 Wks	100	8 Wks	200
Prerequisites:	None										
Corequisites:	None										
Catalog Description: (40 Word Limit)	This course equips students with essential mathematical skills needed to code medical procedures and diagnoses accurately. This course will cover a range of mathematical concepts, from basic arithmetic to more complex calculations, specifically tailored to the needs of medical coders.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Basic mathematics: addition, subtraction, multiplication and division	3			
Conversions for coding: lacerations, medications and debridements	5			
Observation hours	5			
Calculating anesthesia time	5			
Infusion and injection coding	10			
Coding dashboard	5			
TOTAL	33	0	0	0

EVALUATION							
QUIZZES	☑	EXAMS	☑	ORAL PRES		☐	PAPERS ☐
LAB WORK	☐	PROJECTS	☑	COMP FINAL		☑	OTHER ☐

COURSE MATERIALS		
TITLE:	Coding Essentials for Infusion and Injection Therapy Services	
AUTHOR:	Medlearn	
PUBLISHER:	Medlearn Publishing	
VOLUME/EDITION/URL:		
COPYRIGHT DATE:	2024	

TITLE:	CPT Coding Book	
AUTHOR:		
PUBLISHER:	AMA	
VOLUME/EDITION/URL:		
COPYRIGHT DATE:	2024	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Basic mathematics: addition, subtraction, multiplication, and division	3	1. Recall basic mathematical concepts, including addition, subtraction, multiplication, and division. 2. Calculate decimals, percentages, ratios, and proportions.
Conversions for coding: lacerations, medications, and debridements	5	1. Describe the different types of cases that require conversions. 2. Complete case studies in converting inches/mm to cm. 3. Complete case studies in converting units.
Observation hours	5	1. Discuss the rules of observation coding. 2. Determine status of a patient (inpatient, outpatient, or observation). 3. Complete case studies in observation coding and time capture.
Calculating Anesthesia Time	5	1. Define the anesthesia billing formula. 2. Describe types of anesthesia and sedation and billing requirements. 3. Complete case studies in anesthesia coding and time billing.

Infusion and Injection Coding	10	1. Describe infusion types 2. Label the injection and infusion hierarchy pyramid. 3. Complete case studies in infusion and injection coding.
Coding Dashboard	5	1. Discuss the statistics on a coding dashboard and the formulas for calculations. 2. Compute coding days for different specialities. 3. Prepare a weekly task sheet for meeting coding goals.
	33	

Outcomes*	At the successful completion of this course, students will be able to:
Course Outcome	Complete case studies in Injection and Infusion coding.
Course Outcome	Complete case studies in conversions for laceration repairs.
Course Outcome	Define the anesthesia billing formula.
Primary Laker Learning Competency	Quantitative Literacy: Students analyze data and mathematical patterns in real-life situations.
Secondary Laker Learning Competency	Critical Thinking: Students connect knowledge from various disciplines to formulate logical conclusions.

**Course and program outcomes will be used in the software for outcomes assessment and should include at least 1 primary and 1 secondary Laker Learning Competency. Limit to 3-5.*