10/26/2022	DATE
	REQUIRED COURSE
	ELECTIVE COURSE

## Business DIVISION

## Lake Land College

			(	Course Information For	m								
COURSE NUMBER:	CIS	5-170		TITLE: (30 Characters	Max)		Objec	t-Oriente	ed Prog	gramming			
SEM CR HRS:	3	Lecture:		3			Lab:	0				ECH:	3
Course Level:		<b>Ed / IAI</b> calaureate /Non-IAI		<b>Technical</b> Not in Degree Audit	Clinic	cal Practio	cum:	0		rk-based Learning	0	WBL ECH:	0
COURSE PCS #		12 - 11. 0201		IAI Code						Contac	t Hours (M	Inutes Per V	Veek)
Repeatable (Y/N):	Y	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	Ν	Min:		Max:		16 Wks	150	8 Wks	300
Prerequisites:	CIS	5-162, CIS-164											
Catalog Description: (40 Wo Limit)		s course teaches advan P.NET and XML.	ced concepts	s in object-oriented program	ming ir	ncluding a	data st	ructures	, threac	ls, animati	on, netwo	orking, dat	abases,

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1 Introduction to Java	3			
2 Object-Oriented Concepts	6			
3 Program Control	5			
4 Character, Strings, and StringBuilder	4			
5 Arrays	5			
6 Inheritance	7			
7 Exception Handling	4			
8 File I/O	4			
9 Swing components	4			
10 GUI & Graphics	3			
TOTAL	45	0	0	0

<b>EVALUATION</b>

		EVALUATION		
	EXAMS 🗹	ORAL PRES	PAPERS	
LAB WORK	PROJECTS 🗹	COMP FINAL	OTHER	

	COURSE MATERIALS	
TITLE:	Java Programming (ISBN: 978-1-337-39707-0)	
AUTHOR:	Joyce Farrell	
PUBLISHER:	Course Technology	
VOLUME/EDITION/URL:	9th Edition	
COPYRIGHT DATE:	2019	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Introduction to Java	3	Discuss problem solving in Java and using data in Java; create a simple Java program.
Object-Oriented Concepts	6	Use methods, classes, arguments, and method overriding to develop objects.
Program Control	5	Discuss the control structures used in higher level programming to complete tasks, such as iterations, if else logic, and switch case structures.
Characters, String, and StringBuilder	4	Evaluate the manipulation of characters, the use of String methods, and using the String Builder Class.
Arrays	5	Discuss the declaration of and the processing of Arrays in Java.
Inheritance	7	Discuss the Concepts of Inheritance, Extending Classes, and Using Superclasses.
Exception Handling	4	Implement the Try Catch concepts and Error Trapping to create a complete java application.
File I/O	4	Use Java's IO classes to design an application that reads from & writes to a file.
Swing Components & GUIs	4	Implement the Jframe Class, JLabels, GUI Objects Using Layout Manager and JPanels to create a complete java application.

	3	using the drawString() method.
nsert New Line Above this Line		
	45	
COURSE OUTCOMES*	At the successful completion of this cou	rse, students will be able to:
Understand the three basic logic structures.		
Understand how to create and use an array.		
Understand how to create and use a class.		

\* Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.