3/26/2023	DATE	<u> </u>								BUS	DIVISION	I
		JIRED COURSE TIVE COURSE							•	_	NEW CO	
			اء ا	ke Land Colle	ane							
				ourse Information For								
COURCE NUMBER.		TITT 07/				Intro	to 00 on	d Coourity				
COURSE NUMBER:		ITT-076		TITLE: (30 Characters	iviax)		to OS and	a Security				
SEM CR HRS:		Lecture	Career/T	3	1	Lab:	0		205/		ECH:	3
Course Level:		Gen Ed / IAI Baccalaureate /Non-IAI		Not in Degree Audit	Clinic	al Practicum:	0	Inter	SOE/ nship:	0	SOE ECH:	0
COURSE PCS #		12 - 10.0304		IAI Code							linutes Per V	
Repeatable (Y/N): Prerequisites:	N	Pass/Fail (Y/N):	l N	Variable Credit (Y/N):	Ν	Min:	Max:		l6 Wks	150	8 wks	300
Limit)		the security concepts nec	cessary to prote	ect those systems. Leads to	ward G	oogle IT Supp	ort Profes	sional Ce	rtificate	completi	on.	
		List the Major Course Seç	gments (Units)			Contact Lecture Hours	Contac Hou			nical ticum	Non-C Internsh	
Operating Systems						riours						
<ul> <li>Filesystems and permissi</li> </ul>						6						
- Installation and configura						4						
<ul> <li>Processes, logs, tools an System Administration</li> </ul>	d trou	ibleshooting				5						
Infrastructure and cloud:	servic	es				4						
Tool selection and mana						6					1	
- Data handling and backu						5						
Security												
- Cryptography, encryptio	n and	authentication				5						
<ul> <li>Malware and attacks</li> <li>Risk evaluation and best</li> </ul>	proct	loos				6 4	<u> </u>					
- Nisk evaluation and best	ргаст	ices				4						
				7	OTAL	45	0		(	0	0	)
				EVALUATION								
QU	IZZES	<b>3</b>	EXAMS 🗆	217.1207.11011	ORA	AL PRES				PAPERS		
LAB V			ROJECTS 🗹		COM	FINAL				OTHER		
				COURSE MATERIALS								
	Т	ITLE: All online materials		I I ONOL WINTERIN LEO								
	AUTI											
	JBLIS											
VOLUME/EDIT COPYRIG												
COI TRIO	ייי	, vi = i			1							

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES			
		The student will be able to:			
Operating Systems					
Filesystems and permissions	6	Use basic file commands     Manipulate files and text     Compare and contrast Windows and Linux permissions			
Installation and configuration	4	Install operating systems and software packages     Manage hardware and device drivers			
Processes, logs, tools and troubleshooting	5	Explain the details of a process     Manage running processes     Use appropriate logs and tools to troubleshoot an issue			
System Administration					
Infrastructure and cloud services	4	Explain the concepts of virtualization and remote access     Identify critical network services and their functions     Select appropriate cloud models when needed			

Tool selection and management	6	I. Identify appropriate tools to be used in system repairs     Explain the functionality of Active Directory and group policies     Manage objects in Active Directory     Plan a disaster recovery implementation
Data handling and backup	5	Select appropriate backup strategies     Implement a safe data handling plan
Security		
Cryptography, encryption and authentication	5	Compare and contrast symmetric and asymmetric encryption     Explain the application of cryptography in communication and commerce     Explain the process of single and multifactor authentication
Malware and attacks	6	Compare different attack types and identify specific malware     Identify tools for infection remediation and recovery
Risk evaluation and best practices	4	Demonstrate different attack types and identify specific malware     Describe the process of system and application hardening     Identify best practices in security implementations
Insert New Line Above this Line		
	45	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
Operating Systems	Explain the core components of an operating system
Systems Administration	Explain the services available on major computer systems and know the tools used for management
Security	Relate the major concepts of systems security and identify malware

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