ıe: _					<b>Business Computer Programm</b>
ı tas	e the k sho	ould		t by checking the appropriate number or letter to indicate lect <b>employability readiness</b> rather than the grades give	
3 2 1	Req Not	tere uire Ma	es Si ster	can work independently with no supervision  upervision – can perform job completely with limited sured – requires instruction and close supervision  re – no experience or knowledge in this area	upervision
3	2	1	N	A. Explore Computer Concepts	Notes:
				1. Trace the development of computers and their impact on society	
				Describe the categories and evolution of	
				programming languages	
				3. Explain the functions of computer hardware and architecture	
				4. Demonstrate an understanding of computer theory (e.g., bits, bytes, binary logic, memory, and storage)	
				5. Compare computer operating systems (e.g., DOS, Windows, and Unix)	
				6. Discuss legal/ethical issues related to computers	
				7. Identify the application environment/interface for	
				the specific language being covered (e.g., Windows, Macintosh, or DOS Based)	
				8. Explain the concept of security and its relationship to programming	
				9. Manage the operating system on the workstation	
				10. Explain the difference between a mainframe, midframe, server, and personal computer	
				Other:	
3	2	1	N	B. Apply Logical Problem-Solving Skills	Notes:
				1. Analyze a problem	5.000
				2. Determine the steps needed to solve a problem	
				3. Create a method to solve a problem	
				4. Illustrate the problem solution using a flowchart or pseudocode	
				Other:	
3	2	1	N	C. Describe the Software Development Life Cycle	Notes:
				1. Explain how requirements for a new program are gathered	
				2. Explain how to analyze the requirements for a new program	
				3. Explain how to create a flowchart or pseudocode for a new program	
				4. Explain how to use a flowchart or pseudocode in coding the modules of a new program	

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		5. Explain how to integrate the modules of a new	
		program	
		6. Explain how a new program is authorized/accepted	
		7. Explain how to maintain a program	
		Other:	

3	2	1	N	2 · 2 · · · · · · · · · · · · · · · · ·	Notes:
				1. Use correct syntax of a given programming	
				language	
				2. Create a program using internal documentation	
				3. Create a program using variables and constants	
				4. Create a program using counters and accumulators	
				5. Create a program using arithmetic operations and functions	
				6. Create a program using a conditional statement	
				7. Create a program using a loop instruction	
				8. Create a program that requires user input	
				9. Create a program that includes input validation	
				10. Create a program to open, write, and read from a data file	
				11. Create a program to produce a report	
				12. Create a modular program using one or more subroutines	

<sup>| | |</sup> subroutines 13. Create a program using one- and two-dimensional arrays

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3	2	1	N	E. Explore Additional Programming Concepts	Notes:
				Describe steps involved in troubleshooting and debugging	
				2. Discuss considerations in programming for	
				efficiency (e.g., computer time, programmer time,	
				etc.)	
				3. Discuss how to create a user-friendly program	
				3. Discuss now to create a user menary program	
				4. Describe event-driven programming	
				5. Describe error catching/handling	
				6. Compare object-oriented programming with	
				structured programming	
				7. Describe how the Internet uses programming	
				8. Explain uses of scripting languages	
		İ		9. Discuss handicap accessibility considerations in	
				programming	
				Other:	
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3	2	1	N	F. Apply Database Concepts	Notes:
				1. Create file structures	
				2. Describe database structures (e.g., fields, records,	
				files, and tables)	
				3. Create a database file with one or more tables for	
				manipulation by program code	
				4. Create a database file with one or more tables via	
				text editor, database software, and/or source code	
				5. Write code to append, delete, and update a table or a file	
				6. Write code to integrate a database with another	
				application	
				7. Create a relational database application	
				8. Write code to search, sort, and query a database	
_		-		Other:	
				Other.	
			1	1	1
3	2	1	N	G. Prepare for Employment	Notes:
				Demonstrate working as a team	
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				2. Demonstrate analytical skills	
				3. Search the Internet and other places to locate	
				career-planning information and job opportunities	
				related to programming	
				4. Identify careers in the information technology field	
				5. Demonstrate communication skills	

		6. Demonstrate logical thinking	
		7. Demonstrate interpersonal skills	
		8. Explore compatibility for programming	
		Other:	