
Student Name

High School or Vocational Center

**COMPETENCY RECORD FOR ARTICULATION
Baker College**

Please check below each skill the student has mastered with a minimum of 80 percent accuracy or with an A or B grade.

CSC 221A: ROUTING PROTOCOLS AND CONCEPTS

Task	Satisfactory	Unsatisfactory
The student will complete all tests and projects with at least 70% accuracy evaluated by the instructor, and will:		
1. Describe the purpose, nature, and operations of a router		
2. Explain the critical role that routers play in enabling communication across multiple networks		
3. Describe the purpose and nature of routing tables		
4. Explain how a router determines a path and switches packets		
5. Configure and verify router interfaces		
6. Describe the purpose and procedure for configuring static routes		
7. Describe the role of dynamic routing protocols and place these protocols in the context of modern network design		
8. Describe how metrics are used by routing protocols and Identify the metric types used by dynamic routing protocols		
9. Identify the characteristics of distance vector routing protocols		
10. Describe the network discovery process of distance vector routing protocols using Routing Information Protocol (RIP)		
11. Describe the functions, characteristics, and operation of RIPv1		
12. Compare and contrast classful and classless IP addressing		
13. Describe classful and classless routing behavior in routed networks		
14. Design and implement a classless IP addressing scheme for a given network		
15. Demonstrate comprehensive RIPv1 configuration skills		

Task	Satisfactory	Unsatisfactory
16. Apply basic RIPv2 configuration commands and evaluate classless routing updates		
17. Describe the main features and operation of the Enhanced Interior Gateway Routing Protocol (EIGRP)		
18. Use advanced configuration commands with routers implementing EIGRP		
19. Describe the basis features and concepts of link-state routing protocols		
20. Describe the purpose, nature, and operation of OSPF		
21. Configure and verify basic RIPv1, RIPv2 single area OSPF, and EIGRP operations in a small routed network		

Teacher signature _____ Date _____