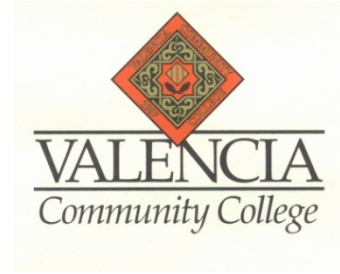


Department of Computer Engineering Technology
 Division of Architecture, Engineering, & Technology
 West Campus Building 9, Room 140 (407) 582-1902/1903



<http://www.valenciacc.edu/west/engineering/>

SESSION: Spring 2009

- Course Syllabus for:** Cisco Router Technology, CET1610C-26616
- Catalog Course Description:** Prerequisites: CET 2486C and CET 2178C or department approval. This course is designed to prepare a student to apply and understand the basics of networking hardware. This course covers the beginning router configurations, routed and routing protocols, and an introduction to LAN switching. This is the second of a four-part series designed to prepare students for the Cisco Certified Networking Associate exam. (Special Fee: \$37.00)
- Class Time and Location:** Wed. 4:30 PM to 8:00 PM, 9-208
- Textbook(s):** Routing Protocols and Concepts, CCNA Exploration Companion Guide
- Reference(s):** Cisco IP Routing: Packet Forwarding and Intra-domain Routing Protocols, By Alex Zinin
- Lab Manual(s):** Routing Protocols and Concepts, CCNA Exploration Labs and Study Guide
- Materials:** lecture Notes, Instructional Videos, Pod casts, and Packet Tracer Simulations Created/ Authored by the Instructor and stored in WebCT.
- Professor's Information:** Wael K. Yousif, Net+, CCNA, CCDA, CCAI, CCNP (Routing), GCFW

Student Performance Assessment:

End of Chapter Tests -----	20%	A	90-100
Laboratory Assignments -----	20%	B	80-89
Homework Assignments -----	15%	C	70-79
Final Written Exam -----	20%	D	60-69
Final Hands-On Exam -----	25%		

Notes:

1. The syllabus and course outline may be changed by notice from the instructor.

Course Outline for CET 1610C; 26616; Spring 2009

Wednesday Date 2009	Chapter/Module	Labs and Activities	Quizzes/Tests & Homework
1/14	Introduction to Routing and Packet Forwarding	1) Lab 1-1: Cabling a Network and Basic Router Configuration. 2) Lab 1-2: Basic Router Configuration 3) Lab 1-3: Challenge Router Configuration	1) Packet Tracer Skills Integration Challenge 2) Module 1 Quiz
1/21	Static Routing	1) Lab 2-1: Basic Static Route Configuration 2) Lab 2-2: Challenge Static Route Configuration	1) Packet Tracer Skills Integration Challenge: Static Routing
1/28	Static Routing- Continued	3) Lab 2-3: Troubleshooting Static Routes	2) Module 2 Quiz
2/4	Introduction to Dynamic Routing Protocols	1) Lab 3-1: Subnetting Scenario 1 2) Lab 3-2: Subnetting Scenario 2 3) Lab 3-3: Subnetting Scenario 3	1) Packet Tracer skills Integration Challenge 2) Module 3 Quiz
2/11	Distance Vector Routing Protocols	1) Lab 4-1: Routing Table Interpretation	1) Packet Tracer skills Integration Challenge: Distance Vector 2) Module 4 Quiz
2/18	RIP Version 1	1) Lab 5-1: Basic RIP Configuration 2) Lab 5-2 Challenge RIP Configuration 3) Lab 5-3: RIP Troubleshooting	1) Packet Tracer Skills Integration Challenge: RIP 2) Module 5 Quiz

Wednesday Date 2009	Chapter/Module	Labs and Activities	Quizzes/Tests & Homework
2/25	VLSM and CIDR	1) Lab 6-1: Basic VLSM Calculation and Addressing Design 2) Lab 6-2: Challenge VLSM Calculation and Addressing Design	
3/4	VLSM and CIDR- Continued	3) Lab 6-4: Basic Route Summarization 4) Lab 6-5: Challenge Route Summarization	1) Packet Tracer Skills Integration Challenge: VLSM and CIDR 2) Module 6 Quiz
3/11	Spring Break – College Closed		
3/18	RIP Version 2	1) Lab 7-1: RIP V2 Basic Configuration 2) Lab 7-2: RIP V2 Challenge Configuration	1) Packet Tracer Skills Integration Challenge: RIP V.2 2) Module 7 Quiz
3/25	The Routing Table: A Closer Look	1) Lab 8-1: Investigating the Routing Table Lookup Process 2) Lab 8-2: Show IP Route Challenge	1) Packet Tracer Skills Integration Challenge: The Routing Table 2) Module 8 Quiz
4/1	EIGRP	1) Lab 9-1: Basic EIGRP Configuration 2) Lab 9-2: Comprehensive EIGRP Configuration 3) Lab 9-3: Challenge EIGRP Configuration	1) Packet Tracer Skills Integration Challenge: EIGRP
4/8	EIGRP- Continued	4) Lab 9-4: EIGRP Design and Configuration 5) Lab 9-5: EIGRP Troubleshooting	2) Module 9 Quiz

Wednesday Date 2009	Chapter/Module	Labs and Activities	Quizzes/Tests & Homework
4/15	Link-State Routing Protocols	Link-State Routing Protocol Exercises	1) Packet Tracer Skills Integration Challenge: EIGRP & RIPv2 2) Module 10 Quiz
4/22	OSPF	1) Lab 11-1: Basic OSPF Configuration 2) Lab 11-2: Challenge OSPF Configuration	1) Packet Tracer Skills Integration Challenge: OSPF 2) Module 11 Quiz
4/29	Final Exam		