

Dongseo University

Division of Computer Engineering

Wide-Area Network Design

Instructor(s): HoonJae LEE/SangGon LEE **Classroom:** -
Office:- **Class Time: 4 hour/week**
Phone: - **Office Hours: 9:00am - 8:00pm**
Email: -

Course Description:

This course provides concepts and advanced switching network. Topics to be covered include Overview of the Cisco Networking Curriculums, Analyzing Cisco Enterprise Campus Architecture, Implementing VLANs in Campus Networks, Implementing Spanning Tree, Implementing InterVLAN Routing, Implementing High Availability and Redundancy in a Campus Network, Securing the Campus Infrastructure, Preparing the Campus Infrastructure for Advanced Services, CCNA/CCNP/CCIE-Network Security.

Course Goals & Objectives:

At the conclusion of this course, the successful (passing) students will be able to configure Wide-Area Network concepts, L2/L3/L4 Switch and Layered Network Security.

Course Outline:

- Week 1 Overview of the Cisco Networking Curriculums
- Week 2 Analyzing the Cisco Enterprise Campus Architecture
- Week 3 Implementing VLANs in Campus Networks (1)
- Week 4 Implementing VLANs in Campus Networks (2)
- Week 5 Implementing Spanning Tree (1)
- Week 6 Implementing Spanning Tree (2)
- Week 7 Implementing InterVLAN Routing (1)
- Week 8 Implementing InterVLAN Routing (2)
- Week 9 Implementing InterVLAN Routing (3)
- Week 10 Implementing High Availability and Redundancy in a Campus Network (1)
- Week 11 Implementing High Availability and Redundancy in a Campus Network (2)
- Week 12 Securing the Campus Infrastructure (1)
- Week 13 Securing the Campus Infrastructure (2)
- Week 14 Preparing the Campus Infrastructure for Advanced Services
- Week 15 Final Week

Textbook(s)

- Required: "SWITCH V6.0 "Implementing IP Switching" & Cisco-CCSP: Network Security"(cisco press)

- Recommended: PPT slides(uploaded to eclass.dongseo.ac.kr)

Class Website: e-Class

Course Assignments & Grading:

- *Assignments:* 30% (Chapter Laboratories on cisco academic website)
- *Bonus Credit:* None
- *Grading:* A/B/C/D/E/F

Grading Policies:

- *Exams: Final* 40%
- *Quizzes:* 10% (Chapter tests in cisco academic website)
- *Course Projects:* None
- *Attendance:* 20%

Course Policies:

- Attendance: 20%
- Academic Misconduct Policy: