<table>
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<th>開課單位</th>
<th>College of Computer Science</th>
<th>授課教師</th>
<th>Sheau-Ling Hsieh</th>
<th>授課學期</th>
<th>2006 學年度 2 學期</th>
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<td>課程名稱</td>
<td>Wired/Wireless Networking Infrastructure Integration and Applications</td>
<td>人數上限</td>
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<td>上課時數</td>
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課程目標：Introduce cutting edge LAN/WAN/WLAN/VLAN/VPN networking technologies in depth, including integrated Wireless/Wired infrastructure design, configurations, security enhancements as well as QoS. Hands-on experience and skills on available commercial Cisco products for technologies covered in class. (lectured in English only)

課程綱要：

(1) Networking Fundamentals, Topologies, TCP/IP Protocol Suite, and IP Addressing  
(2) LAN/WAN/WLAN/VLAN Networking Infrastructures, Design and Components  
(3) Routing Fundamentals, Routed/Routing Protocols, and Subnets  
(4) Routers Techniques in depth, Configurations, Access Control Lists (ACLs), Security & Troubleshooting, QoS.  
(5) LAN Switching Concepts and Switch Techniques in depth, Configurations, Security, VLSM, Troubleshooting, VLAN & QoS.  
(6) WLAN Technologies, Wireless Bridge, Access Point (AP) Configurations & Security Enhancements, QoS.  
(7) Network Security (Firewalls, AAA, Encryption & VPN) Technologies & Configuration (NAT & PAT); PIX (optional)  
(8) LAN/WAN/WLAN/VLAN/VPN Integration, Network Management as well as Applications.

參考書目：

(1) Specifications, White Papers, Research Articles & Reports (Materials from various Web Sites as well as Cisco Curricula) for each and every individual topic and technology; all course materials are on-line  

課程進行方式、課程要求及評分標準：

(1) Class Interfaces, Students form groups for assigned Labs and Home works  
(2) Labs, Home works: Students not only need to understand the technologies but also need to have hands-on experience & skills for the corresponding available commercial Cisco products provided in class; in general: lecture 2-3 hrs/week, lab 0 or 3 hrs/week (if no lab in a week, lecture 3 hrs in that week; if 3 hrs lab in a week, lecture 2 hrs in that week).  
(3) 2 exams in class

※如需本課程綱要表格之電子檔，請至課務組網頁下載。
※請用電腦打字，並請以 mail 傳送給課務組或列印成書面資料。