Antelope Valley College

BCSED Advisory Committee Meeting
May 14, 2010

RECOMMENDATIONS

Group Name: **Computer Networking**

Group Leader: **Dr. Ed Beyer**

Members in Attendance: Mr. Jimmie Bowen (AVC Adjunct)
                             Mr. Perry Puth (EAFB)
                             Mr. Jonathan McCary (Unisys – EAFB)
                             Mr. Marco Suatengco (EAFB)

Discussion and Recommendations:

1.   An overview of the networking certificates and degrees was presented. Discussion revolved around the need to be flexible in course descriptions so that changing technology would not necessitate the development of a new course (i.e., not stating specific application names).

2.   A high-level survey of operating systems class would be beneficial, as well as designing courses that will help *prepare* students for Microsoft certifications. Having a testing center on campus is desirable, and would mitigate travel requirements to other cities for certification testing.

3.   Certifications necessary for employment include: A+, Network+, Security+, MCITP (replaces MCSE), and RHCT (RedHat Certified Technician).

4.   The JAVA programming course should NOT be categorized as obsolete as it provides a foundation for object-oriented programming concepts, which supports other computer courses.

5.   A *VBScript* and *JavaScript* scripting course (that also includes object-oriented concepts) would be desirable to bridge a gap between systems personnel and programming personnel.

6. A certificate (or degree) in Computer Network Security is a must. Potential courses to be included in the certificate/degree could include:

    - CIS 101 – Introduction to Computer Science
    - CA 151 – Microcomputer Operating Systems (with Windows and LINUX emphasis)
    - CA 171 – Introduction to Networking
    - CA 182 – Network Security
    - A post-CA 182 Advanced Network Security course
    - CIS 157 – Introduction to LINUX
    - CA 175 – Administering 2003 Networking

7. Explore the development of an *Ethical Hacking* course, possibly as part of the Network Security certificate.

8. The incorporation of virtualization software is increasing. Understanding and managing virtualization software is important, and will be required in the future. ***VMWare*** and ***Xen Server*** were discussed.