**INFORMATION SYSTEMS TECHNOLOGY**

**SECTION A:**

The IT electives in the IST AAS degree must be met by completing *ALL* of the IT courses in *ONE* of the career studies certificates listed in section A, in which the following program is included:

**NETWORK ENGINEERING (SPECIALIST)**
Career Studies Certificate                                                                                          **AN, WO**

*Purpose:*  This career studies certificate is designed to provide the student with the training necessary to obtain several different CISCO certifications as outlined below.  These certifications prepare the student to install and/or configure a network; optimize Wide Area Networks (WANs) through Internet access solutions that reduce bandwidth and lower WAN costs; and provide remote access by integrating remote dial-up access with remote Local Area Network (LAN) to LAN access, as well as supporting higher levels of performance required for new applications such as Internet commerce and multimedia.  This career studies certificate also prepares the student to sit for the CISCO Certified Networking Associate (CCNA) and the CCDA (CISCO Certified Design Associate) certification exams.

| **One Year** | | | **Credits** |
|---|---|---|---|
| **1st Semester** | | | |
| [1]ENG/SPD | Elective | | 3 |
| ITN | 120 | Wireless – Network Administration | 3 |
| ITN | 154 | Networking Fundamentals - CISCO | 4 |
| ITN | 155 | Introductory Routing – CISCO | <u>4</u> |
| | **Total** | | **14** |
| | | | |
| **2nd Semester** | | | |
| ITN | 156 | Basic Switching and Routing – CISCO | 4 |
| ITN | 157 | WAN Technologies – CISCO | 4 |
| ITN | 209 | Voice Over Internet Protocol | 3 |
| ITN | 222 | Wireless – Network Interoperability | <u>3</u> |
| | **Total** | | **14** |

**Total Credits for the Career Studies Certificate in Network Engineering (Specialist) = 28.**

[1] ENG/SPD elective must be selected from the following:  ENG 111, SPD 100, 110, 115, 126, 227 or 229.