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| **Program/Discipline Learning Outcomes** |
| **Academic Year: 2018/2019** |
| **Program/Discipline: (indicate program/discipline here) Cloud Networking (CLNE)** |
| **PROGRAM/DISCIPLINE CONTACT** |
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| **Learning Outcome:****(Successful students will be able to)** | **Course(s) in which the assessment will be performed** | **Semesters the outcome will be assessed** | **Assessment tools used for learning outcome** |
| 1 | Install and configure a fully routed network with Cisco network equipment. | CNS 106  | Fall or Winter | Packet Tracer simulation software or physical equipment. |
| 2 | Install and deploy current Windows client operating system (OS) using various levels of automation. | CNS 121 | Fall or Winter | Hands-on demonstration using virtualized computers. |
| 3 | Install and deploy current Windows server OS with both a graphical interface and a command line interface | CNS123  | Fall or Winter | Hands-on demonstration using virtualized computers. |
| 4 | Install and network Debian and Red Hat Linux distros into a network. | CNS131 | Fall or Winter | Hands-on demonstration using virtualized computers |
| 5 | Demonstrate a knowledge of basic computer and network security principles. | CNS201 | Fall or Winter | Computer based multiple choice tests. |
| 6 | Configure and test host-based and network-based firewalls using various technologies. | CNS231 | Fall or Winter | Hands-on demonstration using virtualized computers |
| 7 | Demonstrate a basic knowledge of networking in the “Cloud”. | CNS251 | Fall or Winter | Computer based multiple choice tests. |
| 8 | Install and configure a VMware ESXi server to provide a virtualized environment. | CNS 253 | Fall or Winter | Hands-on demonstration using virtualized computers |