# CSEC1110 - Fundamentals of IT Security

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| Credits: | 3 (2/1/0) |
| Description: | Security is an important component of information technology. This course introduces industry-recommended security guidelines and controls. Students will practice implementing several examples of controls and encrypting data in transit and for storage. |
| Prerequisites: | |
| Corequisites: | |
| Pre/Corequisites*: | |
| Competencies: | 1. Carry out information technology policies within an organization that include privacy, legal and ethical considerations.<br>2. Evaluate the purpose and function of cybersecurity technology, identifying the tools and systems that reduce the risk of data breaches while enabling vital organization practices.<br>3. Apply appropriate tools and concepts to minimize the risk to an organization's cyberspace to address cybersecurity threats.<br>4. Identify the characteristics of a risk management approach for responding to and recovering from a cyber attack on systems which contain high-value information and assets such as email.<br>5. Implement common standards, procedures and applications used to protect the confidentiality, integrity and availability of data and information systems.<br>6. Analyze human facets that enable the exploitation of computing-based systems.<br>7. Evaluate various security breaches and their effect on business operations.<br>8. Summarize how governmental and environmental regulations affect an organization's environment.<br>9. Perform common malware analysis procedures on mobile and desktop computer systems. |
| MnTC goal areas: | None |

**Can be taking as a Prerequisite or Corequisite.*

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