

## CSEC1110 - Fundamentals of IT Security

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:	<ol> <li>Carry out information technology policies within an organization that include privacy, legal and ethical considerations.</li> <li>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.</li> <li>Apply appropriate tools and concepts to minimize the risk to an organization's cyberspace to address cybersecurity threats.</li> <li>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.</li> <li>Implement common standards, procedures and applications used to protect the confidentiality, integrity and availability of data and information systems.</li> <li>Analyze human facets that enable the exploitation of computing-based systems.</li> <li>Evaluate various security breaches and their effect on business operations.</li> <li>Summarize how governmental and environmental regulations affect an organization's environment.</li> <li>Perform common malware analysis procedures on mobile and desktop computer systems.</li> </ol>
MnTC goal areas:	None

<sup>\*</sup>*Can be taking as a Prerequisite or Corequisite.*