ITMS 478 RUBRIC

ITMS 478 Cyber Security Management
Students may be scored on a scale of 1 to 5; scores of 2 and 4 may be interpolated.

Program Educational Objectives			
Objective Score ▶	**5**	**3**	**1**
Design and implement an enterprise security program using policy, technology, and awareness to implement appropriate controls and technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions	The student is consistently able to design and implement an enterprise security program using policy, technology, and awareness to implement appropriate controls and technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions	The student is generally able to design and implement an enterprise security program using policy, technology, and awareness to implement appropriate controls and technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions	The student is unable to design and implement an enterprise security program using policy, technology, and awareness to implement appropriate controls and technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions

Course student outcomes			
Upon completion of this course the student should be able to do the following:			
Outcome Score ▶	**5**	**3**	**1**
Discuss the history of computer security and how it evolved into information security/cybersecurity	The student is able to discuss the history of computer security and how it evolved into information security/cybersecurity accurately and in detail	The student is able to discuss the history of computer security and how it evolved into information security/cybersecurity with some omissions or inaccuracies	The student is unable to discuss the history of computer security and how it evolved into information security/cybersecurity
Identify and define key terms and critical concepts of information security	The student is able to, accurately and in detail, identify and define key terms and critical concepts of information security	The student is able to, with some omissions or inaccuracies, identify and define key terms and critical concepts of information security	The student is unable to identify or define key terms and critical concepts of information security
Describe the business need for information security	The student is able to describe the business need for information security accurately and in detail	The student is able to describe the business need for information security with some omissions or inaccuracies	The student is unable to describe the business need for information security
Differentiate between laws and ethics	The student is able to differentiate between laws and ethics accurately and in detail	The student is able to differentiate between laws and ethics with some omissions or inaccuracies	The student is unable to differentiate between laws and ethics
Describe the role of ethics in professional practice in information security	The student is able to describe the role of ethics in professional practice in information security accurately and in detail	The student is able to describe the role of ethics in professional practice in information security with some omissions or inaccuracies	The student is unable to describe the role of ethics in professional practice in information security
Identify major national laws that relate to the practice of information security	The student is able to identify major national laws that relate to the practice of information security accurately and in detail	The student is able to identify major national laws that relate to the practice of information security with some omissions or inaccuracies	The student is unable to identify major national laws that relate to the practice of information security
Define risk management and its role in the Security Systems Development Life Cycle	The student is able to define risk management and its role in the Security Systems Development Life Cycle accurately and in detail	The student is able to define risk management and its role in the Security Systems Development Life Cycle with some omissions or inaccuracies	The student is unable to define risk management and its role in the Security Systems Development Life Cycle
Assist in the preparation and conduct of a cybersecurity audit and prepare a complete audit report with appropriate suggestions for amelioration of problem areas identified	The student has clearly demonstrated their ability to assist in the preparation and conduct of a cybersecurity audit and prepare a complete audit report with appropriate suggestions for amelioration of problem areas identified	The student has demonstrated to some extent their ability to assist in the preparation and conduct of a cybersecurity audit and prepare a complete audit report with appropriate suggestions for amelioration of problem areas identified	The student is unable to assist in the preparation and conduct of a cybersecurity audit and prepare a complete audit report with appropriate suggestions for amelioration of problem areas identified
Describe management's role in the development, maintenance, and enforcement of information security policy, standards, practices, procedures, and guidelines	The student is able to describe management's role in the development, maintenance, and enforcement of information security policy, standards, practices, procedures, and guidelines accurately and in detail	The student is able to describe management's role in the development, maintenance, and enforcement of information security policy, standards, practices, procedures, and guidelines with some omissions or inaccuracies	The student is unable to describe management's role in the development, maintenance, and enforcement of information security policy, standards, practices, procedures, and guidelines
Assist in the design and implementation of a comprehensive enterprise security program using policy and standards to implement technical, operational, and managerial controls	The student has clearly demonstrated their ability to assist in the design and implementation of a comprehensive enterprise security program using policy and standards to implement technical, operational, and managerial controls	The student has demonstrated to some extent their ability to assist in the design and implementation of a comprehensive enterprise security program using policy and standards to implement technical, operational, and managerial controls	The student is unable to demonstrate an ability to assist in the design and implementation of a comprehensive enterprise security program using policy and standards to implement technical, operational, and managerial controls
Recall and describe recommended security management models	The student is able to recall and describe recommended security management models accurately and in detail	The student is able to recall and describe recommended security management models with some omissions or inaccuracies	The student is unable to recall and describe recommended security management models

Outcome Score ▶	5	3	1
Explain what contingency planning is and how incident response planning, disaster recovery planning, and business continuity plans are related to contingency planning	The student is able to explain what contingency planning is and how incident response planning, disaster recovery planning, and business continuity plans are related to contingency planning accurately and in detail	The student is able to recall and describe recommended security management models with some omissions or inaccuracies	The student is unable to recall and describe recommended security management models
Describe common technical security controls, implementations in an enterprise setting, and how they are driven by policy and standards	The student is able to describe common technical security controls, implementations in an enterprise setting, and how they are driven by policy and standards accurately and in detail	The student is able to describe common technical security controls, implementations in an enterprise setting, and how they are driven by policy and standards with some omissions or inaccuracies	The student is unable to describe common technical security controls, implementations in an enterprise setting, and how they are driven by policy and standards
Apply security principles and practices to maintain operations in the presence of risks and threats	The student has clearly demonstrated their ability to apply security principles and practices to maintain operations in the presence of risks and threats	The student has demonstrated to some extent their ability to apply security principles and practices to maintain operations in the presence of risks and threats	The student is unable to demonstrate an ability to apply security principles and practices to maintain operations in the presence of risks and threats