ITMS 458 RUBRIC

ITMS 458 Operating System Security 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, tech- nology, 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 implement appropriate oper- ating system controls and tech- nically secure enterprise infor- mation assets and resources to deter, detect, and prevent the success of attacks and intrusions	The student is generally able to implement appropriate operat- ing system controls and techni- cally secure enterprise infor- mation assets and resources to deter, detect, and prevent the success of attacks and intrusions	The student is unable to imple- ment appropriate operating system 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
Describe potential system attacks and the actors that might perform them	The student is able to describe potential system attacks and the actors that might perform them accurately and in detail	The student is able to describe potential system attacks and the actors that might perform them with some omissions or inaccuracies	The student is unable to describe potential system attacks and the actors that might perform them
Describe appropriate measures to be taken should a system compromise occur	The student is able to describe appropriate measures to be taken should a system compro- mise occur accurately and in detail	The student is able to describe appropriate measures to be taken should a system compro- mise occur with some omissions or inaccuracies	The student is unable to describe appropriate measures to be taken should a system compromise occur
Describe characteristics of malware and identify different malware	The student is able to describe characteristics of malware and identify different malware accu- rately and in detail	The student is able to describe characteristics of malware and identify different malware with some omissions or inaccuracies	The student is unable to describe characteristics of malware and identify different malware
Apply tools and techniques for identifying vulnerabilities	The student has clearly demon- strated their ability to apply tools and techniques for identifying vulnerabilities	The student has adequately demonstrated their ability to apply tools and techniques for identifying vulnerabilities	The student is unable to apply tools and techniques for identifying vulnerabilities
Describe, for a given OS, the steps necessary for hardening the OS with respect to various applications	The student is able to describe, for a given OS, the steps neces- sary for hardening the OS with respect to various applications accurately and in detail	The student is able to describe, for a given OS, the steps neces- sary for hardening the OS with respect to various applications with some omissions or inaccuracies	The student is unable to describe, for a given OS, the steps necessary for hardening the OS with respect to various applications
Securely install a given OS, remove or shut down un-necessary compo- nents and services, close unneces- sary ports, and ensure that all patches and updates are applied	The student has clearly demon- strated their ability to securely install a given OS, remove or shut down un-necessary compo- nents and services, close unnec- essary ports, and ensure that all patches and updates are applied	The student has adequately demonstrated their ability to securely install a given OS, re- move or shut down un-neces- sary components and services, close unnecessary ports, and ensure that all patches and updates are applied	The student is unable to securely install a given OS, remove or shut down un-necessary components and services, close unnecessary ports, and ensure that all patches and updates are applied
Identify the major concepts in mod- ern operating systems and the basic security issues in OS design and im- plementation (how the first princi- ples of security apply to operating systems)	The student is able to, accurately and in detail, identify the major concepts in mod-ern operating systems and the basic security issues in OS design and imple- mentation (how the first princi- ples of security apply to operat- ing systems)	The student is able to, with some omissions or inaccuracies, identify the major concepts in mod-ern operating systems and the basic security issues in OS design and implementation (how the first principles of secu- rity apply to operating systems)	The student is unable to identify the major concepts in modern operating systems and the basic security issues in OS design and implementation (how the first principles of security apply to operating systems)
Apply security principles and prac- tices to maintain operations in the presence of risks and threats	The student has clearly demon- strated 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 demon- strate an ability to apply security principles and practices to maintain operations in the presence of risks and threats