

PROGRAM STUDENT LEARNING OUTCOMES (PSLO) REVIEW FORM

PSLO Review Date	February 23, 2026
Division	Business and Information Systems
Program Name	AAS Information Systems Technology
CIP Code	11.0101

Program Description
<p>The Information Systems Technology degree is a two-year program designed to prepare students for entry-level computer maintenance, help desk, network technician jobs, and cybersecurity related fields. The curriculum focuses on the development of knowledge and skills in computer, network, and security technologies, as well as interpersonal skills in customer service and technical support needed to be successful within the industry. Depending on course selection, this program helps prepare students for industry recognized certification exams such as CompTIA A+, CompTIA Network +, CompTIA Security+, and CompTIA Linux+.</p>

Program Student Learning Outcomes (PSLO)	
PSLO 1	Assess operating systems using critical thinking skills, industry-standard tools, and best practices to demonstrate proper installation, configuration, maintenance, troubleshooting, and customer service.
PSLO 2	Detect, analyze, identify, and resolve security vulnerabilities, cyber threats, and breaches using appropriate software (tools, devices, and processes) to defend network infrastructures.
PSLO 3	Apply legal and ethical standards defined by federal, state, and local guidelines to provide integrity of data and network systems in information systems environments.
PSLO 4	Perform entry-level system administrator duties to analyze, diagnose, and repair common problems with network infrastructures including operating systems, Open Systems and Interconnection model, Transmission Control Protocol/Internet Protocol, and network servers.
PSLO 5	Demonstrate skills and techniques by using various scripting languages and databases to code data driven applications for web development.
PSLO 6	Perform skills needed to secure cloud-based infrastructure services, maintain and optimize cloud environments, manage and maintain servers including virtualization, and troubleshoot security issues related to cloud implementations
PSLO 7	Demonstrate effective communication by using written and oral communication skills in a business professional manner for the information systems environment

Program Student Learning Outcomes and Competencies	
PSLO 1	Assess operating systems using critical thinking skills, industry-standard tools, and best practices to demonstrate proper installation, configuration, maintenance, troubleshooting, and customer service. (Technology Utilization, Analytical and Critical Thinking and Reasoning)
	<ul style="list-style-type: none"> • Demonstrate the skills required to install and configure Windows Servers for a business infrastructure. (ISYS 17303) • Demonstrate the skills required to install and configure Linux Operating Systems. (ISYS 14333)

	<ul style="list-style-type: none"> • Demonstrate the required skills in configuring and managing Windows Servers to utilize the appropriate protocols to provide end users in a Windows Domain environment with access to the necessary network services for business functions. (ISYS 17333) • Demonstrate the required skills in supporting, configuring, and securing Operating System. (ISYS 13333) • Demonstrate the required skills to configure the Windows Server Active Directory objects in a Windows Domain environment. (ISYS 16303) • Demonstrate the required skills in installing and configuring computer hardware, software, operating systems, and drivers. (ISYS 19303) • Understand the basic terminology and concepts that apply to the business environment. (CPSI 16343) • Use logical analysis to apply a critical thinking approach to problem solving for information systems. (ISYS 17303, CPSI 13343, CPSI 27343, CPSI 19343, ISYS 19303)
PSLO 2	Detect, analyze, identify, and resolve security vulnerabilities, cyber threats, and breaches using appropriate software (tools, devices, and processes) to defend network infrastructures. (Technology Utilization, Communication)
	<ul style="list-style-type: none"> • Demonstrate the skills required to secure and defend computer desktops and networks against virus attacks, malware, and other intrusions in both business and home environments with the appropriate software tools and utilities. (ISYS 21303) • Demonstrate the ability to utilize various open source technologies: Routing, Intrusion Detection and Prevention systems. (ISYS 12303) • Demonstrate the necessary skills with various utilities and tools related to network security. (ISYS 13303) • Develop skills in writing the required documentation related to reporting results of network foot printing and defensive measures. (ISYS 14303)
PSLO 3	Apply legal and ethical standards defined by federal, state, and local guidelines to provide integrity of data and network systems in information systems environments. (Technology Utilization, Cultural Competency)
	<ul style="list-style-type: none"> • Demonstrate the necessary skills required in creating, querying, and maintaining a database using Microsoft Access. (CPSI 27343) • Demonstrate the necessary skills in programming methodology producing mathematically sound results as a result of programming decisions for business applications. (CPSI 16343) • Use modern scripting languages to develop utilities and programs for the information systems environment. (ISYS 10303) • Understand the basic terminology and concepts that apply to the business. (ECON 21003) • Demonstrate the skills required to design web sites that adhere to the American Disabilities Act and accommodate the needs of a diverse audience. (CPSI 13343, CPSI 26343)
PSLO 4	Perform entry-level system administrator duties to analyze, diagnose, and repair common problems with network infrastructures including operating systems, Open Systems and Interconnection model, Transmission Control Protocol/Internet Protocol, and network servers. (Technology Utilization)
	<ul style="list-style-type: none"> • Demonstrate the skills required to install and configure Windows Servers for a business infrastructure. (ISYS 17303) • Demonstrate the required skills of IPv4 and IPv6 addressing fundamentals, subnetting, network cabling, and troubleshooting network connectivity with software utilities. (ISYS 12333) • Demonstrate the skills required to install and configure Linux Operating Systems. (ISYS 14333) • Demonstrate the required skills in configuring and managing Windows Servers to utilize the appropriate protocols to provide end users in a Windows Domain environment with access to the necessary network services for business functions. (ISYS 17333) • Demonstrate the skills required to manage and optimize cloud environments and manage and maintain servers. (ISYS 16303)

	<ul style="list-style-type: none"> • Demonstrate the skills required to digitally footprint network systems and defend against attacks to those systems. (ISYS 11303) • Use logical analysis to apply a critical thinking approach to problem solving for business information systems. (13303)
PSLO 5	Demonstrate skills and techniques by using various scripting languages and databases to code data driven applications for web development. (Technology Utilization)
	<ul style="list-style-type: none"> • Demonstrate the required skills to design and code effective user-friendly web sites using modern web design software. (CPSI 13343) • Demonstrate the required skills to design and code secure data driven websites using modern web design software. (CPSI 12443) • Demonstrate the skills required to code in Java and JavaScript for computer and web applications. (CPSI 26343)
PSLO 6	Perform skills needed to secure cloud-based infrastructure services, maintain and optimize cloud environments, manage and maintain servers including virtualization, and troubleshoot security issues related to cloud implementations. (Technology Utilization)
	<ul style="list-style-type: none"> • Demonstrate the required skills to configure the Windows Server Active Directory objects in a Windows Domain environment. (ISYS 16303) • Demonstrate the skills required to manage and optimize cloud environments and manage and maintain servers. (ISYS 16303) • Demonstrate the required skills in configuring and managing Windows Servers to utilize the appropriate protocols to provide end users in a Windows Domain environment with access to the necessary network services for business functions. (ISYS 17333) • Demonstrate the skills to configure network settings between virtual machines, install and configure workstations, and understand physical to virtual machine conversion. (ISYS 17333)
PSLO 7	Demonstrate effective communication by using written and oral communication skills in a business professional manner for the information systems environment. (Technology Utilization, Analytical and Critical Thinking and Reasoning, Communication)
	<ul style="list-style-type: none"> • Demonstrate professional business etiquette, dress, and behavior skills at a business etiquette event or Internship worksite. (BUSI 20103) • Demonstrate the ability to utilize the Internet to conduct research. (CPSI 10103) • Communicate effectively in a written manner by typing and submitting clear and concise business professional documents. (BUSI 20103, ECON 21003, ISYS 13333) • Demonstrate oral communication skills by developing and presenting an individual/group presentation. (BUSI 20103, ISYS 13333) • Develop skills in writing the required documentation related to reporting results of network foot printing and defensive measures. (ISYS 14303)

Review of PSLO	
Instructors have reviewed and approved the PSLO's and determined these do not need to be modified.	X
Instructors have reviewed and did not approve the PSLO's and determined these need to be modified.	
List Modifications or Revisions:	