Institution: San Jacinto College **Program Award Title and Level:** Information Technology Cybersecurity Specialty, AAS

Key Activities to WECM Courses Matrix

Key Activity #/Statement	WECM Course Rubric, Number and Title											
	ITSY 1342 - Information Technology Security	ITSY 2300: Operating System Security	ITSY 2301: Firewalls and Network Security	ITSY 2341: Security Management Practices	ITSY 2342: Incident Response and Handling	ITSY 2343: Computer System Forensics	ITSY 2345: Network Defense and Countermeasures					
Provide Data / Information Assurance - A1: Gather and document data/information assurance requirements.	X			X			X					
Provide Data / Information Assurance - A2: Develop data/information assurance plans and implementation strategies.			X	X			X					
Provide Data / Information Assurance - A3: Review and test plans and strategies for compliance with applicable regulations and standards.		X	X	X			X					
Provide Data / Information Assurance - A4: Implement data/ information assurance plans and strategies.	X	X	X		X		X					
Provide Data / Information Assurance - A5: Monitor performance to ensure integrity and confidentiality.	X	X	X		X	X	X					
Provide Data / Information Assurance - A6: Maintain and update data/information assurance plans and strategies as appropriate.				X	X		X					
Ensure Infrastructure and Network Security - B1: Gather data and analyze security requirements.	X	X	X				X					
Ensure Infrastructure and Network Security - B2: Identify, analyze and evaluate infrastructure and network vulnerabilities.		X	X		X		X					
Ensure Infrastructure and Network Security - B3: Develop critical situation contingency plans and disaster recovery plan.				X	X		X					

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Ensure Infrastructure and Network Security - B4: Implement/test contingency and backup plans and coordinate with stakeholders.				X	X		X					
Ensure Infrastructure and Network Security - B5: Monitor, report and resolve security problems.		X	X		X	X	X					
Develop, Manage and Enforce Security Policies - C1: Perform research and analyze requirements.				X								
Develop, Manage and Enforce Security Policies - C2: Develop, assess and document security policies, practices and procedures.				X								
Develop, Manage and Enforce Security Policies - C3: Disseminate policies and implementation practices and procedures.				X								
Develop, Manage and Enforce Security Policies - C4: Implement, enforce and monitor security policies, practices and procedures.				X	X							
Perform Security Education and Training - D1: Identify and assess education and training requirements for all constituents.				X								
Perform Security Education and Training - D2: Identify resources and support materials.				X								
Perform Security Education and Training - D3: Design and develop education and training plans and strategies.				X								
Perform Security Education and Training - D4: Deliver education and training.				X	X		X					

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Perform Security Education and Training - D5: Assess results and determine follow up requirements.				X								
Develop and Implement Physical Security, Deterrence and Detection - E1: Identify and assess current and anticipated security risks and vulnerabilities.	X			X			X					
Develop and Implement Physical Security, Deterrence and Detection - E2: Research and evaluate alternative current and emerging practices, tools and technologies.	X	X	X				X					
Develop and Implement Physical Security, Deterrence and Detection - E3: Select and apply relevant tools to meet security goals and requirements.	X	X	X				X					
Develop and Implement Physical Security, Deterrence and Detection - E4:Monitor, evaluate and test security conditions and environment.		X	X		X		X					
Develop and Implement Physical Security, Deterrence and Detection - E5: Implement, extend and refine physical security plans and practices.				X			X					
Perform System Design and Analysis - F1: Define current systems level requirements and forecast future needs and trends.			X	X			X					
Perform System Design and Analysis - F2: Evaluate current and emerging tools and technologies.	X	X	X				X					
Perform System Design and Analysis - F3: Evaluate organization's security strategies.				X			X					

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Perform System Design and Analysis - F4: Make recommendations regarding organization's investment in security.				X			X					
Perform System Design and Analysis - F5: Coordinate systems testing and integration.		X	X		X	X	X					
Perform System Design and Analysis - F6: Audit and maintain systems performance and ensure future readiness.		X	X	X	X	X	X					

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