

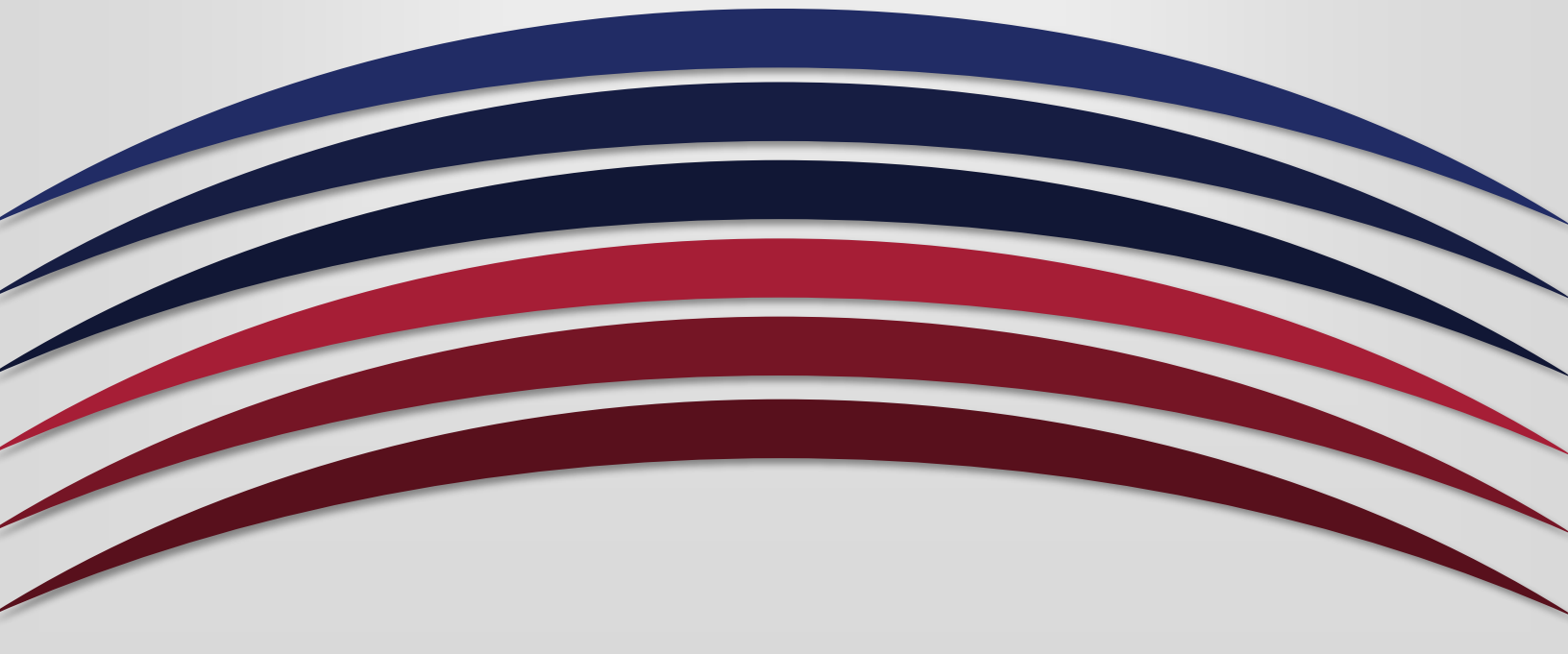


UNIVERSITY OF ARKANSAS PULASKI TECH

Assessment Report: 2018-2019 – Program Level

The University of Arkansas – Pulaski Technical College calls for each program (AS, AA, AAS, CP, and TC) to have an assessment plan for each academic year that includes the following:

- Program Learning Objectives
- Procedures for assessing the achievement of student learning
- Procedures for analyzing and interpreting assessment results for the continuous improvement of the program.



A primary goal for each instructional department's assessment is to include at least one direct measure of student learning, which is accomplished usually through the use of locally developed tests, student portfolios, capstone assessment measures, embedded assignments, or through licensure exams and standardized national tests. In addition to direct measures, most areas may also use indirect methods to assess student achievement. Graduation rates and graduation and employer surveys are frequently used as indirect indicators of student achievement.

This form presents template of questions that must, at minimum, be addressed by instructional departments when filing an assessment plan. While an electronic version of this form will be made available, instructional departments may include additional information not specifically addressed in this form as long as the template questions are addressed.

Other Assessment Considerations:

- The College expects programs/departments/divisions to make curriculum changes and budget requests based in part upon assessment findings. Assessment of student learning should be a catalyst for quality instruction and improvement across the college community.
- All programs will be asked to submit an annual assessment report to the Assessment Committee by October 10th of each year. (If October 10th falls on a weekend, please submit reports on the following Monday.)
- For technical and occupational programs, please consider the role of your advisory committee in your student learning objectives.

This form must be completed by October 10 of each academic year. Complete each part of this form. Please follow highlighted instructions.

Part A: Identification and Assessment Plan

1. Name of program: Associate of Applied Science degree in Computer Information Systems Cybersecurity Emphasis
2. Name of individual compiling report: Danny Martin
3. Date of submission: 10/17/19
4. Is the assessment plan (**Check one**)
☒ an initial plan for the program ☐ a revision of an old plan ☐ unaltered from previous year
5. Provide a brief description of the program and its purposes, to include a description of the jobs/careers for which students are being prepared.

Cybersecurity is a concern for everyone from the individual to governments and big corporations. The proposed program will assist in meeting the needs to find and defend against attacks that go beyond basic security.

The Cybersecurity Option is designed for students who are interested in monitoring, securing, and analyzing data networks, and cybersecurity operation centers. Students acquire a broad understanding and validates the knowledge and skills required to use threat detection tools to prevent, detect and combat cybersecurity threats of how to detect, protect, and analyze computer networks threats and the skills needed for an entry-level position in cybersecurity.

Career opportunities:

- *IT Security Analyst*
- *Security Operations Center (SOC) Analyst*
- *Vulnerability Analyst*
- *Cybersecurity Specialist*
- *Threat Intelligence Analyst*
- *Security Engineer*
- *Cybersecurity Analyst*

Part B: Student Learning Objectives, Assessment Methods, and Data Sources

In this section of the assessment plan, student learning objectives for the program will be defined. Also, assessment methods and data sources for each objective must be defined. Follow the instructions below to define and relate the program learning objectives.

1. Complete the chart below or attach documentation of the assessment process that includes the data included below. Also attach any assessment instruments and grading rubrics used at the program level if applicable.

Program Learning Objectives	Course	Assessment Method and/or Data Source
1. <i>Learn procedures to implement data confidentiality, integrity, availability and security controls on networks, servers and applications.</i>	CIS 1243 Cybersecurity Essentials	<i>Apply skills through practice, using labs and Cisco Packet Tracer activities and use of virtual machines.</i> Students will score a 70% or above to be proficient.
2. <i>Understand security principles and how to develop security policies that comply with cybersecurity laws.</i>	CIS 1243 Cybersecurity Essentials CIS 2004 Cybersecurity Ops I	<i>Apply skills through practice, using labs and Cisco Packet Tracer activities.</i> Hands-on Skills Assessment end of semester. Students will score a 70% or above to be proficient.
3. <i>Apply knowledge and skills to design, implement, and support network security.</i>	CIS 1344 Network Defense	<i>Hands-on Skills Assessment end of semester.</i> <i>Students will score a 70% or above to be proficient.</i>
4. <i>Understand cybersecurity operations network principles, roles and responsibilities as well as the related technologies, tools, regulations and frameworks available.</i>	CIS 2004 Cyber Ops I CIS 2014 Cyber Ops II	<i>Hands-on Skills Assessment end of semester.</i> <i>Students will score a 70% or above to be proficient.</i>
5. <i>Apply knowledge and skills to monitor, detect, investigate, analyze and respond to security incidents.</i>	CIS 2004 Cyber Ops I CIS 2014 Cyber Ops II	<i>Cybersecurity Operations Skills Assessment</i> <i>Students will score a 70% or above to be proficient</i>
6. <i>Understand endpoint attacks, including interpreting log data to identify events in Windows and Linux</i>	CIS 1233 Fundamentals if information security	<i>Hands-on Skills Assessment Students must score 70% or above</i>
7. <i>Demonstrate knowledge and understanding of network Exploits</i>	CIS 1233 Fundamentals if information security CIS 1243 Cybersecurity Essentials	<i>Hands-on Skills Assessment Students must score 70% or above</i>

2. For each program objective, if applicable, discuss any additional data sources that may be used to gauge success (e.g. charts, graphs, surveys, rates).
Courses and assessments are still under development.
3. Describe the process of analyzing the assessment data for the last academic year.

This is the first semester (Fall 2019) of the program, there is no data yet. But instructors will review the assessment data and decide where are weaknesses and suggest ways to improve the outcomes for future semesters.

4. Complete the chart below or attach documentation of the assessment findings that includes the data included below.

Program Learning Objectives	Assessment Findings/Conclusion
1. N/A at this time	<i>This is a brand new program, so there is no data at this time.</i>

5. What is the action plan for assessment for the next academic year? Explain.
This is a new program that started Fall 2019.
6. What changes were implemented this year based on last year's findings?
N/A
7. Please write any additional information here that you think is pertinent to the assessment process for your program that assists stakeholders (i.e. administrators and standing committees) in understanding your report.
This is a new program that just started Fall 2019. 2019-2020 will be the first year this program will be assessed.
8. What budgetary resources, if any, are needed for your program based on your assessment findings?
N/A