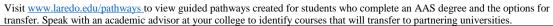
Information Technology, Business & Personal Services

GUIDED PATHWAY: Cyber Security – Digital Forensics (Certificate, AAS Degree) CYBERSECURITY INSTITUTE

This template provides information for students interested in pursuing a career in Digital Forensics. It does not represent a contract, nor does it guarantee course availability. Completing this pathway will earn students an Associate of Applied Science (AAS) degree in Digital Forensics ¹. For official degree requirements, click here.

The Digital Forensics curriculum provides instruction in Digital Evidence Acquisition, eDiscovery, Incident Response, Digital Forensic Triage, Chain-of-Custody, and Digital Investigation. The Cybersecurity Institute is an EC-Council Academia Partner and a member of the AccessData Academic Program. These partnerships allow the Cybersecurity Institute programs the privilege of embedding AccessData and EC-Council certification topics with the curriculum. Students will demonstrate developed skill-sets through a capstone course and earn real world experience through hands-on exercises in cyber-range scenarios. Courses required to complete the Cybersecurity, Digital Forensics Associate of Applied Science Degree (D) and Digital Forensics Certificate (C1).





	E		ADINESS REQUIREMENTS (of sment activities and previous academic expe	only for the AAS) priences indicate a need for additional knowledge and skills:	
			MATH PLACEME	NT ENGLISH LANGUAGE PROFICIENCY	
TSI MET: YES NO IF NO, ADVISOR INSERT COURSE(S) NEEDED			TSI MET: YES NO IF NO, ADVISOR INSERT COURS	TSI MET: YES NO IF NO, ADVISOR INSERT COURSE(S) NEEDED	
□ INRW □			□ DEV MATH		
□ OTHER: □ OTHER:		□ OTHER:	OTHER:		
Exemp	otions/wa	ivers may exist. Speak with an academic advisor rega	rding placement in college readiness cour	ses and your ability to enroll in core academic coursework.	
SEMESTER BY SEMESTER MAP FOR FULL-TIME STUDENTS ²					
D	C1	SEMES	TER 1	ACTION ITEMS	
♦	♦	ITNW 1325 – Fundamentals of No	etworking Technologies	☐ Meet with your advisor to confirm academic and	
♦ ITNW 1413 – Computer Virtualization		ITNW 1413 – Computer Virtualiz	ation	career goals before the end of the semester. Meet with a career advisor or instructor to research your career options and opportunities for job shadowing.	
♦	♦ ITSC 1316 – Linux Installation and Configuration		nd Configuration		
♦	♦	♦ ITSE 1346 – Database Theory and Design			
•	•	ITSC 1342 – Shell Programming			
TOTAL SEMESTER CREDIT HOURS: 16					
D	C1	SEMES	TER 2	ACTION ITEMS	
♦	♦	ITDF 1400 – Introduction to Digi	tal Forensics	☐ Meet with your advisor to file and official degree	
♦	♦	♦ ITNW 2301 – Information Storage and Management		plan, confirm or update your academic/career path and program of study.	
♦	♦	ITDF 2317 – Digital Data Storag	e Forensics		
♦	♦	ITSY 2341 – Computer System F	Forensics	Apply for the 1-Year Certificate II (L2) Completion	
TOTAL SEMESTER CREDIT HOURS: 13					
D		SEMES	TER 3	ACTION ITEMS	
♦		ITDF 2425 – Digital Forensics To	ools	☐ Meet with a career advisor or coach for	
♦		ITDF 2420 – Digital Forensics Collection		assistance in preparing for job search.	
♦		ITDF 2430 – Digital Forensics A	nalysis		
*		ITDF 2435 – Comprehensive Dig (Capstone)	rital Forensics Project		
TOTAL SEMESTER CREDIT HOURS: 16					
D		SEMES	TER 4	ACTION ITEMS	
♦		ENGL 1301 – Composition I (C)		After reviewing your degree plan and program of study apply	
♦		MATH 1324 – Mathematics for B	usiness & Social Sciences I (C)	for graduation.	
♦		ELECTIVE – American History / and Behavioral Science (C)		☐ Meet with your advisor to apply for the AAS. Sign up for commencement	
♦		ELECTIVE – Language, Philosop (C)	bhy and Culture / Creative Arts		
♦		ELECTIVE – Life and Physical S			
			TOTAL SEMESTER CREDIT H	TATELONIES CONTRACTOR OF THE PROPERTY OF THE P	

- AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS/PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS
- 2. Students must earn at least 25% of the program credit hours (15 hours) through instruction by Laredo College.

Degree plans may change in later catalogs. Be sure to consult with your advisor if following an older degree plan.

3. CAPSTONE Course: The learning experience in this course involves consolidation of all program skillsets to reinforce program curricula.

(C) This course is included in the LC Core, if core complete, credits transfer to any public college or university in Texas.

Certification and Licensure Information

Python Institute Certified Entry-Level Python Programmer Certification AccessData Certified Examiner Certification EC-Council Computer Hacking Forensic Investigator Certification

Career Information

Common Job Titles

Network Security Specialist, Security Analyst, Threat Analyst Technical Specialist

Regional Labor Market Information

A Threat Analyst Technical Specialist supports security operations. The professionals must play an active role in the detection of malicious activities. The technical specialist must also be able to respond to threats and ensure continuous improvement through data analytics. They should be able to take care of the other technical services such as design, development, installation and other wide-range of systems that support cyber intelligence functions. This Analyst must maintain and secure the enterprise-wide cyber systems and networks, come up with security initiatives that will provide timely and complete resolutions and work with advanced forensic tools and techniques for attack reconstruction. The candidates should possess a bachelor's degree in computer science, information systems, electrical engineering or any related field. The need for security professionals with appropriate skill in threat intelligence is growing. Organizations are looking for candidates who can evaluate the raw external and internal intelligence data and forming finished analysis to drive decisions. As per Ziprecruiter, the annual salary ranges from \$65,00 to \$186,500 nationally. The average salary of \$121,00 show that Threat Analyst pay rates are seeing general stability across the country.

Source: https://www.fieldengineer.com/skills/threat-analyst-technical-specialist

Career and labor market research tools

(see Quick Reference Guide Bureau of Labor Statistics: http://www.bls.gov/ooh/, O*NET: https://www.onetonline.org/)

Career Resources: Students are encouraged to consult with their area of study advisor for additional career assistance. The above information is provided as a guide and reference tool for occupations related to this program. This is not a guarantee of job placement in any of these occupations after successful completion of an LC program. The common job titles listed are representative titles and are provided for career research. These are not the only occupations possible in this area of study.

Transfer Information

The Associate of Applied Science prepares students to directly enter the workforce; however, a Bachelor of Applied Arts and Sciences (BAAS) or Bachelor of Technology (BAT) degree can further a student's knowledge and probability for employment success. Baccalaureate degrees must meet general education requirements and completion of upper level courses.

Transfer Guides: The universities listed here do not constitute a Laredo College endorsement. Transfer course evaluations and determination of which courses will count toward a Bachelor's degree are made by the receiving transfer institution.

Texas A&M University @San Antonio: https://www.tamusa.edu/

South Texas College: https://www.southtexascollege.edu/

Western Governors University: https://partners.wgu.edu/Pages/Transfer.aspx?iid=340

Additional Transfer Resources: Students are encouraged to consult with a faculty advisor, area of study advisor, and/or their chosen transfer institution to ensure courses taken at LC will apply toward their bachelor's degree program.