

## CS Department Strategic Plan 2020-2023

Goal	Objective	Tactics	Measure of Success	Resources Needed
Engage students in learning activities that will enhance their future careers	<b>ENGAGE STUDENTS IN LEARNING ACTIVITIES THAT WILL ENHANCE THEIR FUTURE CAREERS</b>	Offer ug and grad certificates in data analytics and cybersecurity	Fall 2021-Spring 2022-Four (2 UG and 2 GR) certificates of minimum 3 courses each in both cybersecurity and data analytics	Office space and office computers
		Build advisory council of cs/it 2y college faculty.	Fall 2021-Fall 2023- Initial membership goal of 8 leaders from CS/IT/CIS departments of all community colleges within a 100-mile radius of Tyler	Meeting space for annual meeting in Soules COB building
		Develop new MS in cybersecurity and data analytics	Fall 2021-Spring 2022-New graduate degree program authorized by Texas Higher Ed Coordinating Board and funding approved for new faculty hires – includes six stackable graduate certificates	Office space and office computers
		Internalize CS student success coaching	Fall 2021-Fall 2026- Retention rates of 80% or greater in lower-level gateway courses across all undergraduate curricula: COSC 1315, 1336, 1337, 2315, and 2336	Suitable laptop and other media for student success coach
		Revise MSCS curriculum to optimize career opportunities	Fall 2022-Spring 2023- Determination of suitability of current core requirements with changes seen to enhance students' employability and/or doctoral studies	
		Replace CS laboratory and classroom computing equipment on a three-year schedule	Fall 2022-Fall 2024-All department computing equipment in classrooms and specialty labs will be replaced every three years with most current technology.	Configuration of up-to-date computing equipment as relevant to evolving technologies
		Hire director of information technology	Spring 2023-Fall 2023- Department Director of Information Technology hired. All aspects related	Office space and necessary support technologies

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			to department's technology.	
		Create it track in game development and digital media	Spring 2023-Fall 2023- Game design and development curricula established and approved Relationship established with eSports program	Dedicated game engine software and lab space for new curricula
		Become a national center of excellence in cyber defense education	Fall 2023-Fall 2025- Develop partner relationships with 2Y, 4Y, and HBC Universities as required for NSA/DHS certification	
		Increase internship opportunities for computing majors	Fall 2022-Fall 2024-At least 25% of UG majors over 2 years are provided opportunities for an internship in an external computing environment	
		Require all ug and grad students to meet with faculty advisor at least once per semester	Spring 2023-Fall 2026-100% of majors schedule and meet with a designated faculty advisor each academic semester.	
		Work with other college departments to develop research methods lab	Fall 2021-Spring 2022- Establishment of ORS research methods lab	Develop college virtual lab
		Promote Student Involvement with techniques and practice For Programming Contests.	Fall 2022-Fall 2026-At least two teams of students are prepared for and compete in at least one external contest annually.	Meeting space
		Provide opportunities for graduate students to participate in research activities	Fall 2022-Fall 2023- Graduate students with GRA appointments per academic year – scholarly publications in concert with faculty research supervisors	
<b>Goal</b>	<b>Objective</b>	<b>Tactics</b>	<b>Measure of Success</b>	<b>Resources Needed</b>
Maintain and Expand Opportunities for Students and Faculty to Engage the Community	<b>ENHANCE COMMUNITY INVOLVEMENT OPPORTUNITIES FOR STUDENTS AND FACULTY</b>	Host external guest speakers or colloquia annually with topics timely to all computing degree programs	Fall 2022-Fall 2026- Number of activities per year	Meeting Space

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		Build a new advisory council with local Information Technology organizations	Fall 2022-Fall 2026-Initial membership goal of 8 business and organization leaders Expand membership to 16 by third year	Meeting space for annual meeting in Soules COB building
		Conduct technology awareness seminars (e.g. cybersecurity) for Tyler-area community organizations (e.g. senior citizens, schools, etc.).	Fall 2022-Fall 2026-At least one awareness seminar (e.g., cybersecurity) conducted each semester/year	Necessary portable computer and presentation equipment